34 Box 4 - JGR/Asbestos Legislation (3) - Roberts, John G.: Files SERIES I: Subject File

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33-32P3-(9-5-Da)

13 SEP 1933

Centlement-

Receipt is acknowledged of your letter of Meptember 5,1935, in susuar to the Bursan's lotter of August 31,1935.

The Burern's records show that your INDUNG brand of digh Temperature insulation has a density of 26184 pounds per subis feet and a moisture content of G. Wi, indicating that in this respect yes can camply with a maximum density of SV popular per cubic feet, which is now under consideration. The Bureen would be placed to be able to obtain a suitable high temperature insulation having a maximum density of 30 pounds per subic feet.

The material covered by Specification 3878 has apparately been satisfactory for temperatures herotofore encountered, namely, not in excess of 600°F. It is now proposed to intrins the steam temperature up to 860°F. To provide satisfactory living conditions in confined spaces thicker insulation will have to be used for temperatures up to 850°F.

Test data to date indicates that insulation materials of low weight per outle foot are more efficient from a temperature drop standpoint them those of high weight. It was this fact which led the Eureau to set the maximum limit of disposance as a basis for discussion and not by reason of any suggestion orally or otherwise by any annufacturer of this material.

formation was obtained from a manufacturer's catalogue and was assumed to be standard practice of all of the manufacturer to that sunt to you was sent to each known manufacturer of this material.

In your letter of September 5th, 1935, you say that these thicknesses are standard only to Johns Hanvilla Inc. but you do not offer any information as to your own standard from which it is assumed that your standards are those shown in present Specification 32P3.

As explained above these thicknesses are to be changed toprovide pipe covering suitable for pipe temperatures of 50°F. Your EMDURE brand of high temperature pipe covering when tested on a 3 inch pipe with insulation thickness of 3 inches gives a surface temperature of approximately 117°F, with a rose temperature of approximately 84°F. A thickness of 2-1/8 inches as now provided will show a such higher surface temperature and 117°F. is as such as can be tolerated.

The Bureau vill be pleased to receive your recommendations for a combination pipe covering for temperatures of \$50°F. The thickness of the inner layer of high temperature insulation and the outer layer of \$5% magnesia should be stated for each pipe size 2 inch to 12 inches.

In conclusion the Bureau wishes to assure you that it does not prepare specifications in the interest of any manufacturing source. All changes in specification are dictated by necessities of the Naval service and are made after pareful consideration.

Respectfully,

đã, dillekte By direction

Exret Magnesia Manufasturing Co., Valley Forge, Pa.

TITLE 32 - NATIONAL DEFENSE

CHAPTER IX - OFFICE OF PRODUCTION MANAGEMENT

Subchapter B - PRIORITIES DIVISION

Part 1064 7 ABBESTOS

TION ORDER NO. M-79 CURTAILING THE USE OF CERTAIN TYPES OF ASBESTOS

ational defease requirements have created a shortage of certain types of asbestos for the combined e, private account, and export; and the supply now is and will be insufficient for defease and esa requirements unless their use in certain products manufactured for civilian use is curtailed; and
is the public interest, to promote the defease of the United States, to conserve the supply and
withteless thereof: ribution thereof:

PORE, IT IS MEREST ORDERED THAT:

trictions on the Use of Certain Types of Asbestos

Daless otherwise specifically authorised by the Director of Priorities, after February 1, 1942, so person shall fabricate, spin, or process in any other way ambestos fibre imported from South Africa except where such fabrication, spinning or processing is necessary to fill Defense Orders as defined in Priorities Regulation No. 1, as amended from time to time.

Is addition to the above limitation, unless otherwise specifically authorized by the Director of Priorities, after February 1, 1965, so person shall fabricate, epin or process is any other way:

- (i) Chrysotlle asbestom fibre (Rhodesias) Grade C and G-1 and 2 except where such fabrication, spinning or processing is necessary to fill Defense Orders for:
 - (a) core rowings to meet Navy specification Number 17-I-29 (INT); (Insulation, electrical, asbestos fibre, treated and untreated, dated October 1, 1941, or as same may be amended.)
 - (b) tapes and cloth which are required by specification to be of a mon-ferrous mature;
- (c) sos-ferross lapps.
- (iii) Amosite asbeetos fibre (Grade B-1 or amosite asbeetos having a fibre length equivalent to that of Grade B-1) except where such fabricating, spinning or processing is necessary to fill Defense Ordere for Amosite woven felt blankets and mattresses for turbine insulation for use on naval and maritime ships.
- (iii) Amosite asbestos fibre (Grade B-8, D-8 or amoeite asbestos having a fibre length equivalent to that of Grade B-8 or D-8) except where each fabricating, spinning or processing is seces-sary to fill Defease Orders for:
 - (a) Yover felt blankets and mattressee and fittings for turbine insulation for use on naval and maritime ohips;
 - (b) Fire proof board;
 - (c) Sprayed Amosite;
 - (d) Bighty-five per cent magnesia pipe covering and blocks;
 - (e) Molded Amosite pipe covering and blocks;
 - (f) Flexible amosite pipe insulations.
 - (g) Dry pack insulation.
- In addition to the above limitations unless otherwise specifically authorised by the Director of Priorities, after February 1, 1942, no person shall install eighty-five per cent magnesia or other high temperature pipe covering except in installations where temperatures of 300° Fabrenheit or

ports.

- 1 Any person who manufactures or processes asbestoe fibre shall, on or before the 10th day of Pebruary, 1942, and on or before the 10th day of each calendar month thereafter, file with the Office of Production Management, Ref: H-79, all of he information required by Porms PD-251 and PD-252, whichever is applicable.
- In addition, any person who manufactures or processes asbeetos fibre shall, when requested, file with the Office of Production Management, Ref: M-79, all the information required by Porm PD-253. Dibitions against Sales or Deliveries. No person shall bereafter sell or deliver asbestos fibre to person if he knows, or has reason to believe, such material is to be used in violation of the terms thie Order.

mitation of Inventories. No manufacturer shall receive delivery of asbestos fibre or products there, in the form of raw materials, semi-processed materials, finished parts or sub-assemblies, sor shall put into process any raw material, is quantities which in either case shall result in an inventory such raw-semi-processed or finished material is excess of a minimum practicable working inventory, hing into consideration the limitations placed upon the production of ambeston fibre products by this

scellaneoue Provisions.

Applicability of Priorities Regulation No. 1. This Order and all transactions affected thereby are subject to the provisions of Priorities Regulation No. 1, (Part 944) as amended from time to time, except to the extent that any provision hereof may be inconsistent therewith, in which case the provisions of this Order shall govern.

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eal. Any person affected by this Order who considers that compliance therewith would work exceptional and assessmable hardship apon him or that it would result in a degree of unloyment which would be usreasonably disproportionate compared with the amount of ambestos re conserved, or that compliance with this Order would disrupt or impair a program of consider from son-defense work to defense work may appeal to the Office of Production Hangert, Bef: M-79, setting forth the pertisent facts and the reason he considers he is entitled relief. The Director of Priorities may thereupon take such action as he deems appropriate.

reties. The pirector of retorities may thereupon take buts action as he deems appropriate. licability of Order. The probibitions and restrictions contained in this Order shall apply the use of material in all articles hereafter manufactured irrespective of whether such icles are manufactured pursuant to a contract made prior or subsequent to the effective date of, or pursuant to a contract supported by a preference rating. Insofar as any other Orfite of the Director of Priorities may have the effect of limiting or cartailing to a greater int than hereis provided, the use of asbeston fibre in the production of any article, the itations of such other Order shall be observed.

*espondence and Communication. All reports required to be filed bereunder, and all communication concerning this Order, shall, unless otherwise directed, be addressed to:

"Office of Production Management, Vanhington, D. C. Ref: H-79"

ations. Any Person who wilfully violates any provision of this Order, or who by any let mission falsifies records to be kept or information to be furnished present to this Order, further action may be taken as is deemed appropriate, including a recommendation, and tion mader Section 35 A of the Criminal Code [18 U.S.C. 80].

crive Date. This Order shall take effect immediately and shall continue in effect until

(P.D. Reg. 1, Amesded, Dec. 22, 1941, 8 P.R. 6680; O.P.M. Reg. 3 Amended, Sept. 2, 1941, 6 P.R. 4885; B.O. 8629, Jas. 7, 1941, 6 P.R. 191; B.O. 8875, Aug. 28, 1941, 5 P.R. 4482; sec. 2[a], Public No. 671, 76th Congress, Third Session, as amesded by Public No. 39, 77th Congress, First Session].

ed this 20th day of January, 1942.

J. S. Incwlson Acting Director of Priorities

RAW MATERIALS DATA SHEET

Prepared for the IS AND REPORTS BIVISION, OFFICE OF IMPORTS BOARD OF ECONOMIC WARFARE

by the sureau of foreign and conestic connerce DEPARTMENT OF COMMERCE.

CONFIDENTIAL Injounction Indicated

COMMODITY

Asbestos (Crude) Canadian and African Critical Grades Vait: Short tor Conversion Factor:

DESCRIPTION, GRADES:

Description: "Asbestoe" is a consercial term applied to fibrous varieties of several minerals differing widely in composition, the fibre being diverse in strength, flaxibility, and consequent usefulness. The three varieties of asbestos in greatest use commercially are: (a) Chrysotile, a highly fibrous material amployed in the manufacture of asbestos textiles, compressed sheet packings, asbestos-cement materials, and other asbestos products; (b) Amesite, a coarse, long, resilient fibre used principally for insulations; "(c) Crocidolite (Blue), a fibre with high tensile strength used mainly in asbestos-cement pipe and also, be-micause of its acid-resistant qualities, in certain packings. Chrysotile comprises the major portion of the world production and consumption of both long and short fibres.

"The United States produces only about 2½ percent of the present required supplies of ambestos. Domestic production is chiefly chrysotile, mined principally in Vermont and Arizona. The Vermont fibre is short and is comparable to short Canadian fibres. Arizona production includes some long fibres which can be substituted for low iron imported types. Canada are convented for about 85 percent of all imposts timported in 1942; Imports from Canada are chrysotile and now average 8 percent crudes and spinning or textile fibres, the remainder being shorter, nonspinnable fibres. The supplies of these short fibres are adequate. The major source of imports other than Canada is South Africa, which produces blue, amosite, and the bulk of the direction fracts of the supplies of these short fibres are adequate. The major source of imports other than Canada is South Africa, which produces blue, amosite, and the bulk of the direction fibres (chrysotile Grades C a 0 1, 2, 3, and 4; amosite B-1, B-3, or D-3, 3/DM-1 and M-1; and blue asbestoe) are essential for direct and indirect military use and cannot be replaced to any great extent by the spinning grades of Canadian fibre, the supply of which also is limited. African Description: "Asbestoe" is a convergial term applied to fibrous varieties of several minerals differ

3/N=1 and N=1; and blue aspectos) are essential for direct and indirect military use and cannot be replaced to any great extent by the spinning grades of Canadian fibra, the supply of which also is limited. African chrysottie grades, chiefly from Rhodesia, have relatively low iron content and are required to meet Many specifications for essential types of electrical insulation. Amosite, found only in the Union of Bouth Africa, is sesential for the manufacture of certain types of insulation for the Many and the U. S. Maritime Commission. Blue aebectos ie produced principally in the Union of South Africa, although some of inferior quality is found in the Transvall. The blue is used because of its high tensile strength in aebectos—cement pipes and also, owing to its acid—resistant qualitiem, in packinge, filter cloths, etc. Canadian spinning fibres represent the three highest groupe of Canadian chrysotile, and are used principally in the manufacture. ture of aebestos textiles.

2. "BASIC STATISTICS:

640	•	SITUATION

Consumption [®]		Supplies		
Wilitary	52,345	U. 8. prod	U. 8. prod 5	None 54,038
Total req	52,345	African	26,401 27,637	
. !		Total sup	77,513	
Gov't stockpile:	692	Industry stocks:	25.311	

*Military and Civilian requirements for Crude asbestoe are segligible. Requirements are for manufactured products for which a breakdown is not available. Consumption of ifrican grade was 15,180; Canadian grade is 15,186.

U. B. INFORTS ⁸					
Source	1937-39 average	% of total	1942*	% of total	
Africab		40.1	26,401 27,637	48.9 51.1	
. Total	21,500	100.0	54.038	100.0	

Schodule & Host \$500.0; \$500.1; \$501.0. Dholesia and Dalos of South Africa.

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(Continued on other, side

Country	Amount	% of total
Bouth Africa Southern Rhodesia2 Canada	55,000	25.4 45.9 28.7
Total	122,000	100.0

Betimated.

Begresemin production of critical grades of crude of a total production of 997,378 tons of crude of all grades.

U. S. EXPORTS,	1842*
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Exports of Canadian and African grades asbestos are not shown separately.

U. S. PRODUCTION AND CONSUMPTION

	1937-39 average	1941	1942*
Production	Kone	None	None
Consumption	n.e.	n.a.	52,345

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DECLASSIFIED Authority COMMERCE GUIDANICE

Asbestos (Grude), Canadian and African Critical Grades—Continued

3. USES, SUBSTITUTES, RESTRICTIONS:

Uses: The white, highly fibrous, chrysotile from Canada and Southern Rhodesia is used in the production of textiles (including brake linings and clutch facings) and certain grades of building materials. The brownish gray coarse fibred amosite from the Union of South Africa is used in the production of Site of the Union of South Africa is used in the production of Ships.

The blue orocidolite from the Union of South Africa is used in the production of acid packings, file ter cloth, asbestos cement and pipe, because of its resistance to acids.

Substitutes: There is no generally acceptable substitute for asbestos in specific applications where resistance to heat, electricity, acid erosion are prime considerations.

Mineral wool, glass wool and the shorter fibres have been utilized for insulation in some instances in lieu of the critical grades. Asbestos is, however, being used in the war program as a substitute for other materials, e. g., asbestos pipe is being used in some applications in lieu of cast iron and steel pipe. Short fibre in some instances is being used as a substitute for critical grades of long fibre.

Restrictions: Conservation Order M-79, as amended June 18, 1942, restricts the use of fibre from South Africa to priority rated orders and confines certain grades and types to specific uses. Asbestos from the Union of South Africa and Rhodesia was placed under General Imports Order N-63, January 13, 1942. Conservation Order M-123, as amended December 14, 1942, prohibits the use or delivery of asbestos textiles for certain nonessential uses. Conservation Order M-283 provides for the allocation of asbestos textextiles.

4. PRICES AND STOWAGE:

Prices (March 18, 1943):

Canadian grades:

Per ton, f.c.b. Quebec Mines, tax and bags included (Quotations in U. S. funds):

African grades:

Stowage: Crude asbestos is packed in cloth bags with no inner liner; gross weight 101 pounds, tare one pound. Cubic measurement, 1.8 cubic feet; stowage factor 34. Some grades occupy 3.4 cubic feet per bag of 99 pounds gross weight and have stowage factor of 78. Stowage factors for crude asbestos from Africa vary from 78 to 90 depending upon the degree of fibre concentration from crude rock.

5. SPECIAL PROBLEMS:

Since only African varieties of asbestos satisfy certain critical military requirements, the essential problem is that of maintaining uninterrupted imports from Rhodesia and Union of South Africa.

Further references: "Asbestos—Critical Grades" in "Commodity Chart Book." M.P.B. Statistics Division,
Materials Branch. """
U. S. Tariff Commission has studies on Asbestos.

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\$0.59 akum, \$0.85; Young, \$0.83; Zapata, \$0.83; and Zavala, \$0.80.

Wisconsin: Adams, \$0.88; Ashland, \$1.09; Barron, \$1.29; Bayfield, \$1.19; Brown, \$1.32; Buffalo, \$1.30; Burnett, \$1.09; Calumet, \$1.42; Chippewa, \$1.22; Clark, \$1.25; Columbia, \$1.27; Crawford, \$1.33; Dane, \$1.37; Dodge, \$1.50; Door, 11.13; Douglas, \$1.22; Dunn, \$1.25; Eau Claire, \$1.26; Florence, \$1.03; Fond Du Lac, \$1.42; Forest, \$1.13; Grant, \$1.41; Green. \$1.40; Green Lake, \$1.32; Iowa, 11.36; Iron, \$1.13; Jackson, \$1.21; Jefferon, \$1.46; Juneau, \$1.13; Kenosha, \$1.41; Kewaunee, \$1.25; La Crosse, \$1.38; Laayette, \$1.36; Langlade, \$1.20; Lincoln, 11.14; Manitowoc, \$1.43; Marathon, :1.18; Marinette, \$1.08; Marquette, \$1.04; Allwaukee, \$1.46; Monroe, \$1.31; Oconto, :1.14; Oneida, \$1.05; Outagamic, \$1.35; Dzaukec, \$1.45; Pepin, \$1.30; Pierce, :1.32; Polk, \$1.23; Portage, \$1.03; Price, 1.14; Racine, \$1.48; Richland, \$1.33; lock, \$1.36; Rusk, \$1.24; St. Croix, \$1.30; auk, \$1.26; Sawyer, \$1.11; Shawano, 1.25; Sheboygan, \$1.44; Taylor, \$1.23; Trempealeau, \$1.27; Vernon, \$1.33; Vilas, 1.04; Walworth, \$1.40; Washburn, \$1.09; Vashington, \$1.47; Waukesha, \$1.43; Vaupaca, \$1.29; Waushara, \$1.02; Winiebago, \$1.38; and Wood, \$1.15.

Wyoming: Campbell, \$0.61; Converse, 0.61; Crook, \$0.77; Goshen, \$0.74; Johnon, \$0.86; Laramie, \$0.56; Niobara, 0.55; Platte, \$0.73; Sheridan, \$0.93; and Veston, \$0.79.

Done at Washington, D. C., this 23th ay of August, 1941. Witness my hand nd the seal of the Department of Agliculture.

[SEAL] CLAUDE R. WICKARD, Secretary of Agriculture.

F. R. Doc. 41-6514; Filed, August 29, 1941; 11:18 a. m.]

TITLE 32—NATIONAL DEFENSE CHAPTER VI—SELECTIVE SERVICE SYSTEM

[Amendment No. 109]

N AMENDMENT TO AUTHORIZE STATE MEDICAL OFFICERS TO CONDUCT PHYSICAL EXAMINATIONS IN EMERCINCIES

By virtue of the Selective Training and crvice Act of 1940 (54 Stat. 885) and he authority vested in me by the rules and regulations prescribed by the Presient thereunder, I hereby amend, effective fifteen (15) days after the filling creof with the Division of the Federal collect, the Selective Service Regulations, Volume One, Section IV, by striking out the present Paragraph 123 and ibstituting therefor the following:

123. State medical officers. a. In each late, one or more medical officers of the rmy, Navy, National Guard, Naval Rerves, or Organized Reserves shall be signed by the President, upon recomendation of the Governor, Medical

officers shall report to the Governor for duty at State Headquerters.

b. In emergencies, State medical officers may either assist examining physicians in conducting physical examinations of registrants or may themselves perform such examinations in place of the examining physicians; in the latter event, the State medical officers shall sign the Reports of Physical Examination (Form 200).

LEWIS B. HERSHEY,
Director.

AUGUST 28, 1941.

[F. R. Doc. 41-6491; Flied, August 28, 1941; 4:17 p. m.]

[No. 27]

ORDER PRESCRIBING FORMS

By virtue of the Sclective Training and Service Act of 1940 (54 Stat. 885) and the authority vested in me by the rules and regulations prescribed by the President thereunder, and more particularly the provisions of Paragraph 163 and Appendix A to Volume One' of the Selective Service Regulations, I hereby prescribe the following changes in DSS forms:

Revision of DSS Form 21, entitled "Oath of Office," by combining it with and eliminating DSS Form 257, entitled "Waiver of Pay," effective fifteen (15) days after the filing hereof with the Division of the Federal Register. The supply of original DSS Form 21 and DSS Form 257 on hand will be used until exhausted.

The foregoing revision shall, effective fifteen (15) days after the filing hereof with the Division of the Federal Register, become a part of Appendix A to Volume One, Selective Service Regulations.

LEWIS B. HERSHEY,

AUGUST 27, 1941.

[F. R. Doc. 41-6452; Filed, August 28, 1941; 4:17 p. m.]

CHAPTER IX—OFFICE OF PRODUC-TION MANAGEMENT

SUBCHAPTER B-PRIORITIES DIVISION

[Priorities Regulation No. 1]

PART 944—REGULATIONS APPLICABLE TO THE OPERATION OF THE PRIORITIES SYSTEM

Establishing Provisions and Definitions Applicable to the Operation of the Priorities System

The following Regulation is issued by the Director of Priorities to promote the defense of the United States and for the purpose of improving and facilitating the operation of the Priorities System.

§ 944.1 Definitions. (a) "Person" means any individual, partnership, association, corporation or other form of enterprise.

- (b) "Defense Order" means:
- (1) Any contract or order for material or equipment to be delivered to, or for the account of:
- (i) The Army or Navy of the United States, the United States Maritime Commission, the Panama Canal, the Coast and Geodetic Survey, the Coast Guard, the Civil Aeronautics Authority, the National Advisory Commission for Aeronautics, the Office of Scientific Research and Development;
- (ii) The government of any of the following countries: The United Kingdom, Canada and other Dominions, Crown Colonies and Protectorates of the British Empire, Belgium, China, Greece, The Kingdom of the Netherlands, Norway, Poland, Russia and Yugoslavia.
- (2) Any contract or order placed by any agency of the United States Government for material or equipment to be delivered to, or for the account of, the government of any country listed above, or any other country, including those in the Western Hemisphere, pursuant to the Act of March 11, 1941, entitled "An Act to Promote the Defense of the United States," (Lend-Lease Act).
- (3) Any other contract or order to which the Director of Priorities ussigns a preference rating of A-10 or higher.
- (4) Any contract or order for material or equipment required by the Person placing the same to fulfill his contracts or orders on hand, provided such material or equipment is to be physically incorporated in material or equipment to be delivered under contracts or orders included under (1), (2) or (3) above.
- (c) "Material" means any commodity, equipment, accessories, parts, assemblies or products of any kind.*
- *§§ 944.1 to 944.21, inclusive, issued under the authority contained in O.P.M. Regulation 3, March 7, 1941. 6 F.R. 1556; E.O. 8629, January 7, 1941. 6 F.R. 191; sec. 2 (a), Public No. 671, 76th Congress, Third Session, as amended by Public No. 89, 77th Congress, First Session; wc. 9, Public No. 763, 76th Congress, Third Session.
- § 944.2 Acceptance of defense orders. Defense Orders for any Material, whether or not accompanied by a Preference Rating Certificate, must be accepted and fulfilled in preference to any other contracts or purchase orders for such Material, subject to the following provisions:
- (a) Defense Orders must be accepted even if acceptance will render impossible, or result in deferment of:
- (I) Deliveries under non-defense orders previously accepted, or
- (2) Deliveries under Defense Orders previously accepted bearin; lower preference ratings, unless rejection is specifically permitted by the Director of Priorities:
- (b) Defense Orders need not be accepted:
- (1) Delivery on schedule thereunder would be implicable by reason of the requirements of Defense Orders previ-

¹5 F.R. 3779.

onely accepted hearing higher or equal rence ratings, unless acceptance is a crifically directed by the Director of Priorities;

(2) If the Person seeking to place the Defense Order is unwilling or unable to meet regularly established prices and terms of sale or payment, but there shall be no discrimination against Defense Orders in establishing such prices or terms;

(3) If the Material ordered is not of the kind usually produced or capable of being produced by the Person to whom the Defense Order is offered;

(4) If such Defense Orders specify deliveries within fifteen days, and if compliance with such delivery dates would require the termination before completion of a specific production schedule already commenced.*

§ 944.3 Rejected orders. When a Defense Order for any Material has been rejected in violation of this Regulation, the Person seeking to place such Order may file with the Division of Priorities a verified report in form to be prescribed. setting forth the facts in connection with the alleged rejection. When the facts set forth justify such action, the Director of Priorities will thereupon direct the Person against whom complaint is made to submit a sworn statement setting forth the circumstances concerning the alleged rejection. Thereafter, such action will be taken by the Director of Priorities as he deems appropriate.*

§ 944.4 Assignment of preference ratings. Preference ratings may be assigned to contracts, purchase orders or deliverles by means of Preference Rating Certificates issued by authority of the Director of Priorities, or by regulations or Orders issued by the Director of Priorities assigning ratings to particular deliveries or to specified classes of deliveries. Such ratings may be assigned to deliveries under accepted contracts or purchase orders, and also, in the case of Defense Orders, to purchase orders which have not been placed or accepted at the time the rating is applied for. The Director of Priorities may also issue specific directions as to particular deliveries, without assigning ratings thereto.*

§ 944.5 Sequence of preference ratings. Preference Ratings in order of precedence, are: AA, A-1-a, A-1-b, etc., . . . A-1-j; A-2, A-3, etc., . . . A-10; BB, B-1, B-2, etc., . . . B-8, AA being the highest rating presently assigned.*

\$ 944.6 Doubt/ul cases. Whenever there is doubt as to the preference rating applicable to any delivery, or as to whether a-particular order is a Defense Order, the matter is to be referred to the Division of Priorities for determination, with a statement of all pertinent facts.*

§ 944.7 Sequence of deliveres. (a) Every delivery under a Defense Order shall be made in preference to deliveries under all other contracts or orders whenever, and to the extent, necessary to fulfill the delivery schedule provided in the

Preference Rating Certificate covering such delivery, or in the contract or purchase order if no Certificate has been issucd. Deliveries bearing no preference rating or lower preference ratings shall be deferred to the extent necessary to assure those deliveries bearing higher preference ratings, even though such deferment may cause defaults under other contracts or purchase orders. Each Person who has Defense Orders on hand must so schedule his production and deliveries that deliveries under Defense Orders will be made on the dates required, giving precedence, in case of unavoidable delay, to deliveries bearing the higher preference ratings.

(b) The sequence of deliveries bearing the same preference rating shall be determined by the delivery dates specified in their respective Preference Rating Certificates, or if the ratings were assigned by Order or direction of the Director of Priorities, but no Certificates were issued, then by the dates specified in the contracts or purchase orders. In any case where both preference ratings and delivery dates are the same, and it is impossible to make all deliveries on schedule, the matter is to be referred to the Division of Priorities for instructions as to sequence.

§ 944.8 Delivery schedules. No earlier delivery date shall be specified in any Defense Order than required by the production or delivery schedules of the Person placing the Defense Order. No preference rating will be assigned to any contract or purchase order specifying delivery dates earlier than required by the production or delivery schedules of the Person placing the contract or purchase order.*

§ 944.9 Deferred deliveries. When deliveries under Defense Orders have been unreasonably or improperly deferred, the Person entitled to delivery may file with the Division of Priorities a verified report in form to be prescribed, setting forth the facts in connection with the alleged deferment. When the facts set forth justify such action, the Director of Priorities will thereupon direct the Person against whom complaint is made to submit a sworn statement, setting forth the circumstances concerning the alleged deforment of deliveries. Thereafter, such action will be taken by the Director of Priorities as he deems appropriate.*

§ 944.10 Allocations. When specific allocations of a Material are made by the Director of Priorities, such allocations may, in the discretion of the Director, be made without regard to any preference ratings which have been assigned to deliveries under particular contracts or purchase orders.*

1944.11 Use of material obtained under allocation or preference rating. Any Person who obtains a delivery of any Miterial under an Order or specific direction of the Director of Priorities, or a delivery of Material bearing a preference rating, must use such Material, or an equivalent amount thereof, for the

purpose specified in connection with vissuance of the Order, direction o. rating.*

§ 944.12 Intra-company deliveries. When any Order of the Director of Prioritics prohibits or restricts deliveries of any Material by any Person, such prohibition or restriction shall, in the absence of a contrary direction, apply not only to deliveries to other Persons, including affiliates and subsidiaries, but also to deliveries from one branch, division or section of a single enterprise to another branch, division or section of the same or any other enterprise owned or controlled by the same Person.*

§ 994.13 Effect of order: damages. When any Order of the Director of Priorities prohibits or restricts deliveries of any Material, such prohibition or restriction shall, in the absence of a contrary direction, apply to all deliveries made after the effective date of the Order, including deliveries under contracts or purchase orders accepted either prior or subsequent to the effective date of the Order. No Person shall be held liable for damages or penalties for any default under any contract or purchase order which shall result directly or indirectly from his compliance with any rule, regu-Lation or Order issued by the Director of Priorities.*

§ 944.14 Inventory restriction. Unless specifically authorized by the Director of Pricrities, no Person shall, after the effective date of this Regulation, knowingly make delivery of any Material whatever, and no Person shall accept delivery thereof, in an amount, quantity or number which will increase for any current month the inventory of such Material of the Person accepting delivery, in the same or other forms, in excess of the amount, quantity or number necessary to meet required deliveries of the products of the Person accepting delivery, on the basis of his current method and rate of operation. This provision shall not prohibit or restrict:

(a) Deliveries for direct export out of the United States, provided that such exports shall have been licensed by the Administrator of Export Control;

(b) Deliveries of imported Material to any Person importing the same, either directly or through an agent.

§ 944.15 Records. All Persons affected by any Order of the Director of Priorities shall keep and preserve for a period of not less than two years accurate and complete records of their inventories of the Material covered by such Order, and of the details of all transactions in the Material covered by such Order. Such records shall include the dates of all confracts or purchase orders accepted, the delivery dutes specified in such contracts or purchase orders, and in any Proference Rating Certificates accomranying them, the dates of actual delivcites thereunder, description of the Miterial covered by such contracts or purchase orders, description of deliveries

by classes, types, quantities, weights and values, the parties involved in each transaction, the preference ratings, if any, assigned to deliveries under such contracts or purchase orders, details of all Defense Orders either accepted or offered and rejected, and other pertinent information.*

§ 944.16 Audit and inspection. All records required to be kept by this Regulation or by any Order of the Director of Priorities shall, upon request, be submitted to audit and inspection by duly authorized representatives of the Office of Production Management.*

§ 944.17 Reports. All Persons affected by any Order of the Director of Priorities shall execute and file with the Office of Production Management such reports and questionnaires as said Office shall from time to time request. No reports or questionnaires are to be filed by any Person until forms therefor are prescribed by the Office of Production Management.*

§ 944.18 False statements. Any Person who wilfully falsifies any records which he is required to keep by the Director of Priorities, or who otherwise wilfully furnishes false information to the Director of Priorities or to the Office of Production Management, and any Person who obtains a delivery, an allocation of Material or a preference rating by means of a material and wilful misstatement, may be prohibited by the Director of Priorities from making or obtaining further deliveries of Material under allocation and may be deprived of further priorities assistance. The Director of Priorities may also take any other action deemed appropriate, including the making of a recommendation for prosecution under section 35A of the Criminal Code (18 U. S. C. 80).

§ 944.19 Appeal. Any Person affected by any Regulation or Order of the Director of Priorities who considers that compliance therewith would work an exceptional and unreasonable hardship upon him, may appeal to the Division of Priorities by addressing a letter to the Division of Priorities, Office of Production Management, Social Security Building, Washington, D. C., setting forth the pertinent facts and the reasons such Person considers that he is entitled to relief. The Director of Priorities may thereupon take such action as he deems appropriate.*

§ 944.20 Notification of customers. Any Person who is prohibited from, or restricted in, making deliveries of any Material by the provisions of any Order of the Director of Priorities shall, as soon as practicable, notity each of his regular customers of the requirements of such Order, but the failure to give such notice shall not excuse any customer from the obligation of complying with the terms of such Order.*

§ 944.21 Effect of regulation; ratification of prior acts. This regulation shall take effect at once, and shall here-

after regulate and govern all matters embraced herein, except where inconsistent with the specific provisions of any existing or future Order or direction of the Director of Priorities. All existing Orders, directions and actions of the Director of Prioritles are hereby ratified and confirmed and shall remain in full force and effect until they expire by their terms or are specifically revoked or amended.

Issued August 27th, 1941, effective immediately.

> E. R. Stettinius, Jr., Director of Priorities.

Approved:

WILLIAM S. KNUDSEN, Director General. SIDNEY HILLMAN,

Associate Director General.

[F. R. Doc. 41-6490; Filed, August 28, 1941; 1:49 p. m.]

CHAPTER XI-OFFICE OF PRICE ADMINISTRATION AND CIVILIAN SUPPLY

PART 1337-RAYON 1

AMENDMENT OF CIVILIAN ALLOCATION PROGRAM FOR RAYON YARN

It is hereby directed that the amendment to § 1337.1 which was issued August 15, 1941, be amended by deleting the expiration date "August 31, 1941", and substituting in lieu thereof the expiration date "September 30, 1941."

It is further directed that the amendment to § 1337.1 which was issued August 19, 1941, be amended by deleting the expiration date "August 31, 1941", and substituting in lieu thereof the expiration date "September 30, 1941", and it is further directed that such amendment be amended by deleting the figure "95 %" and substituting in lieu thereof the figure "100%.".

Section 1337.1, as amended, is also hereby further amended by adding at the end thereof the following:

§ 1337.1 Allocation ot materials. · · Provided further, That the rayon yarn expressly required by this program to be made available to hosiery manufacturers and to other former users of silk shall be used only to replace silk, and the amount thereof shall therefore be computed apart from the quantities of rayon yarn which will, in the reduced amounts available by reason of this prograin, be supplied to persons who prior to August 1, 1941 were purchasers of rayon yarn, and Provided also, That nothing herein contained shall be taken to be any representation on the part of the Government as to the suitability of any process of manufacture of rayon yarn for the manufacture of hosicry or other products formerly made largely or

wholly from silk, nor shall anything herein contained be construed to prevent any producer of rayon yarn from selling yarn not covered by this section to any manufacturer.

Section 1337.2 is hereby amended by adding at the end thereof the following:

§ 1337.2 Disposal of yarn allocated but not purchased. • • • Provided, however, That if on the last day of August any of the amounts of rayon yarn required to be set aside during the month of August have not been purchased by persons permitted to make purchases under Section 1337.1, such yarn shall not be disposed of by the producer thereof but shall continue to be held by the producer thereof for disposition in accordance with the terms of this program.

Issued this 28th day of August 1941.

LEON HENDERSON, Administrator.

[F. R. Doc. 41-6512; Filed, August 29, 1941; 11:15 n. m.)

[Schedule No. 251

PART 1343-FATS AND OILS AND THEIR PRODUCTS

ELIMINATION OF SPECULATIVE AND INFLA-TIONARY PRICE PRACTICES WITH RESPECT TO PATS AND OILS AND THEIR PRODUCTS

The Office of Price Administration and Civilian Supply is charged with the maintenance of price stability and civilian supply. Present stocks and production of fats and oils and their products are ample. However, during the past few months, speculation in and hoarding of fats and oils and their products has created the impression of a shortage and has imposed an artificial influence upon prices detrimental to the public interest and national defense. The exhaustive investigation by this Office, and the information and counsel furnished this Office by the trade, have established the necessity for, and the willingness of the trade to cooperate in, the elimination of certain of these speculative and inflationary price practices.

Therefore, under the authority vested in me by Executive Order No. 8734,' it is hereby directed that:

§ 1343.1 Elimination of speculative resales. No person shall buy or offer to buy, and no person shall sell or offer to sell, fats or oils or their products for the purpose of reselling them at a profit without either (a) further processing them or (b) performing some other recornized function in the distribution or manufacture thereof.

Any purchase or sale of a futures contract made on an organized commodity exchange to hedge a position, or any purchase or cale made to fill an order on hand, to avoid transportation expenses, or to facilitate any other recognized

^{4 6} P.R. 3922, 4145, 4214.

⁴ G F.R. 1917.

#ANUAL OF POLICY AND PROCEDURES

WERPRODUCTION SOARD

HANUAL OF POLICY AND PROCEDURES

EFFECTIVE DATE

August 20, 1943

SUBJECT

GENERAL ADMINISTRATIVE ORDER NO. 220 (Amonded)

FILICY DATE

[100] #0. 2780

FILICY DATE

COMPLIANCE ACTIVITIES OF THE WAR PRODUCTION BOARD

IR

Section 1. Purpose:

Col The purpose of this Order is to regulate the compliance activities of the War Production Board, and to establish rules and procedures for the taking of administrative action and the institution of civil or oriminal proceedings in cases of noncompliance with orders and regulations issued by or under the authority of the Chairman of the War Production Board.

Section 2. Responsibility for Compliance:

.Ol Responsibility for obtaining compliance with orders and regulations of the War Production Board is vested in the Director of the Compliance Division, the General Counsel, and (subject to policy direction from either of them) in the Regional Directors and Regional Compliance Chiefs.

.02 All officials of the War Production Board shall promptly refer to the Complaince Division all cases of violation of an order or regulation which involve a substantial diversion of material or productive capacity, or which appear to be wilful or the result of gross negligence.

.03 The Director of the Compliance Division shall have sole authority and responsibility for authorizing and conducting investigations and surveys relating to compliance with orders and regulations. Such authority and responsibility may be delegated by the Director of the Compliance Division to Regional Directors with authority to redelegate with the consent of the Director of the Compliance Division to other regional officers. Until otherwise ordered all employees of the Compliance Division, all regional employees assigned to compliance activities in their respective offices, and all employees of other agencies of the United States who may be requested by the Director of the Compliance Division or by a Regional Director to assist in War Production Board compliance activities may, in the course of their official duties, exercise the authority conferred upon the President by the Second War Powers Act to make inspections and investigations in connection with the enforcement or administration of Said Act.

.04 Except as otherwise provided in this Order, no official of the War Production Board shall deal with any violation either by the taking of administrative action or by the adjustment of a case unless under specific delegation from the Director of the Compliance Division.

Section 3. Compliance Procedures:

.01 Compliance with orders and regulations of the War Production Board may be enforced by criminal prosecutions and divil injunction proceedings under the Second War Powers Act, or by the taking of administrative action against persons violating such regulations and orders, including the issuance of suspension orders in proper cases.

.02 Criminal or civil prosecution under the Second War Powers Act shall be the customary method of enforcing compliance. All wilful and substantial violations of War Production Board orders or regulations are to be referred to the Department of Justice for criminal or civil prosecution in lieu of taking administrative action against the violator, unless the General Counsel determines that such prosecution is impracticable or inappropriate.

Section 4. Institution of Civil or Criminal Proceedings:

....

.Ol In any case where it appears to the Director of the Compliance Division or to a regional compliance chief that the institution of civil or oriminal proceedings for violation of orders and regulations or for misrepresentations to the War Production Board is proper, such case shall be immediately referred to the Office of the General Counsel for appropriate action. (The Office of the General Counsel as used in this Order includes the regional attorneys.)

.02 The decision of the General Counsel as to the necessity for such proceedings shall be final, unless overruled by the Chairman of the War Production Board.

(OVER)

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. $\sqrt[3]{5}$ The General Counsel may recommend the institution of civil or oriminal is on his own initiative in any case where he deems it appropriate to do so.

.04 Except as authorized by this Section 4, no officer or employee of the War 1 Board, except members of the Office of the General Counsel, shall take any any kind with respect to current or contemplated civil or oriminal proceedings alleged violations of WPB regulations or orders.

. Administrative Action in Cases of Noncompliance:

.01 Suspension orders may be issued in the name and under the authority of the stion Board, in cases of violations of WPB regulations or orders resulting from I misconduct or gross negligence of the person or firm involved, and in cases resentations to the War Production Board in connection with operations under stions, orders, or directives.

.02 Suspension orders may:

- 1 Withdraw or withhold priority assistance from a respondent;
- 2 Withdraw of withhold allocations or allotments of scarce materials or products from a respondent;
- 3 Prohibit or restrict a respondent in the acquisition, delivery, production, use or disposition of scarce materials or products; or
- 4 Otherwise regulate the business conducted by respondent in order to assure future compliance by him.

Compliance Commissioners:

.01 The Chairman of the War Production Board will appoint persons to act as a commissioners. The Chairman will also appoint a Chief Compliance Commision a Deputy Chief Compliance Commissioner. The Chief Commissioner, the Deputy all other compliance commissioners shall be responsible solely to the Chaira war Production Board and shall have no other duties than those specified Budgetary and other administrative matters affecting the commissioners shall a through the Office of the Executive Secretary.

.O2 Compliance commissioners will consider all charges of violation presented upliance Division or the Regional Compliance Chiefs, will preside at hearings this purpose, and will recommend administrative action, including the issuance sion orders, in appropriate cases pursuant to this Order.

.03 Compliance commissioners will also preside at hearings held in connection stigations of alleged violations, though no specific charge has been made.

.04 For the purpose of obtaining any information, verifying any report rer making any investigation concerning the violation of any order or regulation,
s commissioners may administer oaths and affirmations and may require by subued in the name of the War Production Board the attendance and testimony of witi the production of any books, records, or any other documentary or physical
which may be relevant.

.05 All subpoenas shall be returnable before a compliance commissioner, prot, if prior to the return date specified in the subpoena, the person against subpoena is issued furnishes the compliance commissioner with a true certified uch books, records, or other documentary evidence, then the production of such cords or evidence shall not be required at any place other than the place where n against whom the subpoena is issued resides or transacts business.

.06 The Chief Compliance Commissioner will hear and determine appeals from deficompliance commissioners, and will perform the further duties specified in . He will also exercise general supervision over the work of compliance coms, subject to direction of the Chairman. He may establish policies, standards dures to be followed by the commissioners, not inconsistent with this Order; policies, standards and procedures must be approved by the General Counsel issuance. He may also himself act as compliance commissioner from time to

.07 The Deputy Chief Compliance Commissioner will hear and determine such apmay be referred to him from time to time by the Chief Compliance Commissioner. so himself act as compliance commissioner from time to time.

Section 7. Administrative Proceedings:

.01 When the Director of the Compliance Division, a regional director, or a regional compliance chief, after investigation, has reason to believe that there has been a violation of any order or regulation which in his opinion warrants criminal, civil or administrative proceedings, he will refer the case to the Office of the General Counsel (or to the regional attorney). If the Office of the General Counsel determines that administrative proceedings should be instituted, a charging letter or telegram will be prepared for the signature of the Director of the Compliance Division or the regional compliance chief, advising the respondent of the specific violations charged and the administrative action that may be taken against him. The respondent will be afforded an opportunity to offer a written explanation of the charges, or to appear at a hearing when the charges against him are considered by a compliance commissioner. No suspension order (except a temporary order referred to in paragraph .05) will be issued except after such a hearing.

.02 Upon reasonable notice to the respondent, the hearing will be held on the charges against him. The commissioner will consider all of the facts relevant to the violations charged submitted by the Compliance Division and the respondent, including oral testimony, written statements and exhibits. After considering the facts submitted at the hearing, the compliance commissioner will file his report and recommendation with the regional office of the War Production Board. The report will contain a statement of the facts found relative to the violations charged, together with the commissioner's conclusion as to whether or not such facts constituted a violation of the orders and regulations of the War Production Board, and if so, whether or not the violation was wilful or the result of gross negligence. The report will be accompanied by a separate recommendation of the administrative action to be taken or for the closing or other discosition of the case, including, where appropriate, a recommendation for transmission of the case to the Department of Justice for civil or criminal proceedings. Instead of filing a recommendation, the commissioner may direct that no final disposition be made of the case for a specified period of time pending a determination of the possibility of continuing violations in the future. The report of the commissioner as to the facts found shall be binding upon the Compliance Division for the purpose of the compliance proceeding, but may be reviewed by the Chief Compliance Commissioner on an appeal filed by the respondent.

.03 If the compliance commissioner concludes that the facts found do not constitute either a wilful violation or a violation caused by the gross negligence of the respondent, he will close the case with a letter to the respondent.

.04 When the compliance commissioner recommends the taking of administrative action, his recommendation shall be incorporated in a proposed suspension order and submitted to the Office of the General Counsel and to the Director of the Compliance Division, upon whose approval such order shall issue in the name of the War Production Board, witnessed or attested by the Executive Secretary or the Recording Secretary. The Office of the General Counsel and the Director of the Compliance Division may also jointly direct the issuance of a suspension order differing from the suspension order proposed by the compliance commissioner only in that the terms of the suspension are less, or the restrictions imposed are less severe. No suspension order shall be issued unless approved by both the Office of the General Counsel and the Director of the Comliance Division, unless otherwise directed by the Chairman.

.05 The Director or Deputy Director of the Compliance Division may at any time, with the approval of the Office of the General Counsel, direct the issuance of a temporary suspension order with or without notice. In all such cases, however, the respondent will be informed of the charges against him and a hearing will be held as soon as practicable after the issuance of the temporary suspension order, and in any event before such order is made permanent.

.05 The Director or Deputy Director of the Compliance Division may at any time, with the approval of the Office of the General Counsel, direct the issuance of a suspension order upon the consent of the respondent, and the issuance of specific exceptions or authorizations under suspension orders; this authority may be delegated by the Director to other officials of the War Production Board.

...07 Any person affected by the provisions of a suspension order issued in accordance with a report of a compliance commissioner may appeal from any or all of the provisions of such order to the Chief Compliance Commissioner. When the appeal is from a decision of the Chief Compliance Commissioner acting as a commissioner, the appeal shall be to the Deputy Chief Compliance Commissioner. The appeal must be taken in accordance with the rules and procedures laid down from time to time by the Chief Compliance Commissioner, and his decision thereon shall be final. In determining such appeals, the Chief Compliance Commissioner may direct the closing of the case or the modification of the Order in any respect, including an increase of the suspension period or the restrictions imposed, subject, however, to the approvals specified in paragraph .04 above.

- .08 Pending the determination of an appeal from the provisions of a suspenor, the Chief Compliance Commissioner or his Deputy, upon a showing of irreparm, may direct the issuance of an order staying the operation of the suspension In any case in which an appeal is taken from a decision of the Chief Compliance oner acting as a commissioner, a stay may be issued by the Deputy Chief Complimissioner.
- .09 The Chief Compliance Commissioner may also, at any time, with the consent ffice of the General Counsel, revoke or modify any suspension order by diminishperiod of suspension or the restrictions imposed though no appeal from the order taken by the respondent.
- .10 The Director of the Compliance Division shall prepare and transmit to the tion Bureau for issuance in the booklet "Priorities", a list containing names esses of persons, firms, and corporations against whom suspension orders have ued and the provisions of such orders.
- .ll No preference rating certificates, orders, allocations, allotments, or ations shall be issued by any employee of the War Production Board when proby the provisions of any suspension order.

B. Closing Compliance Cases:

- .01 Prior to submission of a case to the Office of the General Counsel, it losed or a warning letter may be issued to the respondent at any time by the of the Compliance Division, the regional director, or the regional compliance
- .02 After a case has been submitted to the Office of the General Counsel, it losed only by, or with the consent of, that Office.
- .03 After a hearing has been held in a case before a compliance commissioner, ay be closed only by the commissioner.

9. Orders Superseded:

.01 This Order supersedes General Administrative Order No. 2-29 as amended 18, 1942.

10. Effective Date:

.01 This Order will be effective on and after August 20, 1943.

I CERTIFY THAT THE ORIGINAL OF THIS ORDER DULY APPROVED AND SIGNED BY THE COMPLETE EXECUTIVE WAS FILED WITH ME ON THE 21 DAY OF AUGUST, 1943.

Donald M. Nelson

Chairman

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Priorities and Industry



DIVISION OF INFORMATION

LACKINGTON, D.C.

AUGUST, 1942

PART I

THE OVERALL PATTERN

The Priorities System is the primary method of controlling the flow of materials and finished products in the war economy. It has grown from small beginnings, just as war production has grown from a defense program of less than \$100,000,000 in the Spring of 1940 to a giant which will be larger next year than the total national income

of the depression years.

In the early days of the defense program, priorities simply meant.

In the early days of the defense program, priorities simply meant.

In the early days of the defense program, priorities simply meant putting first things first—giving a preference to military orders when they conflicted with ordinary civilian production. That was sufficient when military production was only a small part of the total national output. It is obviously not enough now that direct spending for war amounts to more than all of the rest of the economic activities of the United States put together.

The easiest way to understand the priorities system as it exists today is to look back on how it has grown. It would have been impossible a year ago to devise a system to meet today's needs, and by the same token it has not been possible at any time during the last year to take time out for the development and application of a wholly new system based on today's conception of war requirements. The development of priorities has necessarily been a continuous adaptation of controls to a situation which changed with disconcerting rapidity, and it will clearly be necessary to keep on changing the system until the war is over. Constant change may be inconvenient but rigidity under the conditions of modern war would be fatal. but rigidity under the conditions of modern war would be fatal.

There are, however, a few basic instruments of the priorities system which have been used in one form or another virtually from the beginning and which are likely to remain in use as long as priorities

are necessary.

The first of these is the priority rating or preference rating. These ratings, expressed in a continuous series from AAA to B-8, indicate the relative importance of various uses of materials in the war economy. An order which has been assigned an AAA rating is of the utmost urgency, followed in importance by those in the AA series, the A-1 series and ratings of A-2, A-3, A-4, etc. This pattern of ratings is established with the full force of law by Priorities Regulations No. 1, which says that any purchase order bearing a preference rating must be accepted and given its proper place in production and delivery schedules. The preference rating, in other words, is the tag on a purchase order which governs the place that order will take in the war economy.

......

Preference rate general agency by inthorary of the War Production Board in a number of different ways which will be described in greater detail later on in this booklet. Briefly, the principal methods used to assign preference ratings are as follows:

Individual preference rating certificates, PD-IA's and PD-3A's.—These certificates are used by the War Production Board and by procurement officers of the Army, Navy, and other authorized Government agencies, to assign ratings to orders for specific quantities of material or equipment for a specific purpose. These individual certificates were used very extensively in the earlier days of the priorities system but their importance has been diminishing since it has become necessary to schedule the flow of materials on a broad basis become necessary to schedule the flow of materials on a broad basis

over a longer period of time.
Limited blanket rating orders, "P" orders.—These orders permit the use of preference ratings without further authorization by certain companies, industries or groups of industries for excified purposes, both to obtain production materials and materials for maintenance, repair, and operating supplies. Most of these orders have been canrepair, and operating supplies. Most of these orders have been canceled or allowed to expire, because they did not provide a sufficient tight control over the quantity of materials to which ratings could be applied under their terms. A few of them remain in effect, however, especially for the use of smaller companies and companies to which no other form of priority assistance is appropriate.

Project ratings.—These are a special type of limited blanket rating used for construction projects. A manufacturer putting up.

Project ratings.—These are a special type of limited blanket rating used for construction projects. A manufacturer putting up a new plant, for example, can be granted a project rating. This rating can be applied to all the orders for materials going into the project, but when the project is finished the rating expires. Because materials needed for new construction projects have become scarce, the kinds of new construction projects which may be undertaken have been strictly limited, particularly by a "Directive for War-Time Construction" issued jointly by the War and Navy Departments and WPB. Production Requirements Plan.—This is a combined preference rating and allocation system. Under it WPB determines the amount of material available and allots it on the basis of an industry's importance to the war effort. With a few exceptions, PRP is manda-

of material available and allots it on the basis of an industry's importance to the war effort. With a few exceptions, PRP is mandatory for all concerns using \$5,000 worth of metal a quarter, which means approximately 90 percent of all metal used.

Manufacturers operating under PRP are assigned preference ratings for definite quantities of material to be used by them during a 8-month period. The grade of the preference rating still depends on the importance of the product, but the amount of material the manufacturer may obtain with his rating depends also on how much of that material is available. A significant feature of PRP is that no company operating under it is permitted to use or extend any other form of preference rating for material used in production.

These are the principal methods by which priority assistance is extended. There is also a special form of assistance granted occasionally for capital equipment, and a special distributor's form, PD-1X. Provisions also are made for appeals for releasing frozen inventories.

Finally, priorities enter into the field of foreign trade, where assistance is given for Land-Lease and other foreign requirements.

The priorities system, however, is concerned with more than assistance. The other side of the picture is the rules and regulations which insure that the system works—in a word, control. Of course, these two factors overlap frequently, but there are certain clearly distinguishable types of priorities control which may be covered briefly here.

Priorities Regulation No. 1.—Mention already has been made of Regulation No. 1, the basis of the priorities system. This regulation does more than merely set up a system whereby companies can obtain materials. It specifically states what producers and suppliers can and cannot do under the priorities system. Probably its most important provision is that all rated orders, civilian as well as war, must be accepted. Delivery dates must be specified, and no one is permitted provision is that an rated orders, civilian as wan as war, huse be accepted. Delivery dates must be specified, and no one is permitted to ask for delivery any sooner than required by his own production or delivery schedules. Regulation No. 1 also forbids the building up of excessive inventories.

Materials control, the "M" orders.—The purpose of these orders is to bring certain raw materials under the control of WPB. Usually is to bring certain raw materials under the control of wkr.b. Usuany this is done by simply forbidding delivery of the raw material to the manufacturer unless it is to be used for specified war purposes. In other cases the same end is accomplished by asking that producers of certain raw materials submit their shipping schedules to WPB for

Machine tools, "E" orders.—These are like M orders, except that Machine tools, "E" orders.—Inese are like M orders, except that they apply to the distribution of equipment, chiefly machine tools and cutting tools. These are subject to E orders, in exactly the same manner as raw materials are subject to M orders. Close control is kept over allocation of new machine tools among purchasers in this country and abroad, and also over the sale and delivery of second-

country and abroad, and also over the sale and delivery of second-hand machine tools.

End products, "L" orders.—This type of regulation is issued to prohibit or curtail production-of less essential goods which use up large quantities of scarce raw materials. In addition, stoppage or limitation of production through an L order often makes more pro-duction facilities available to the war effort. Production of auto-

duction facilities available to the war enort. Froduction of automobiles was stopped by the issuance of an Lorder.

Enforcement, "S" orders.—A special Compliance Branch, with investigative and legal sections and an extensive field organization, is charged with enforcement of priorities orders. By means of industrycharged with enforcement of priorities orders. By means of industry-wide surveys, spot checks and individual investigation of apparent violations it maintains a constant watch over the use of critically needed scarce materials. Under the Second War Powers Act priorities violators are subject to severe penalties, ranging from a fine of \$10,000 up to imprisonment of 1 year, or both.

Requisitioning.—In addition to the above controls, WPB also has

the authority to requisition idle material and equipment essential to the war effort. So far, most requisition orders have been issued to acquire valuable material held in warehouses and other storage places for the accounts of European firms on orders placed before the outbreak of war.

These, then, are the chief controls and the chief methods of granting assistance in the priorities system. But priorities cannot be thought of as simply a series of orders and controls superimposed on our normal business life. They are today the basis of our entire economy, because our entire economy is devoted to the war effort. One way of defining the priorities system is to say that its primary function is to schedule deliveries of materials and products in such a way as to bring about the maximum production of war and absolutely essential products which the United States with all its vast resources is capable of supplying.

Every worker and every factory, every bit of material and every machine is now a part of the war program. No use of material is unimportant and no company has a right to think of its own operations except in connection with the war program. Priorities must be accepted on this basis, and a strict observance, not only of the letter but also of the spirit of the priorities system, is a high patriotic duty.

duty.

There are no longer distinctions between soldiers and civilians when the bombs fall, and there likewise are no distinctions between soldiers and civilians in massing the forces of the Nation for total

war.

Material has become just as important as fighting man power, and any failure to produce material which might help to win a battle is just as serious as failure of soldiers under fire.

Priorities orders are the basis for production of planes and ships, and a day's delay in carrying out orders on the home front may mean a day's delay in achieving final victory.

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UNITED STATES NAVY DEPARTMENT BUREAU OF MEDICINE AND SURGERY

ANNUAL REPORT OF THE SURGEON GENERAL, U.S. NAVY

CHIEF OF THE BUREAU OF MEDICINE AND SURGERY

TO THE SECRETARY OF THE NAVY

CONCERNING

STATISTICS OF DISEASES AND INJURIES IN THE UNITED STATES NAVY

FOR THE CALENDAR YEAR

1939



UNITED STATES

GOVERNMENT PRINTING OFFICE

WASHINGTON: 1941

lous action of the light.

INDUSTRIAL MEDICINE

examination, periodical examinations are given during continuance of occupation in such work. This increases the work of the Yard dispensary and involves considerable additional cost to the government by reason of materials expended, but it is believed that the results obtained will prevent any serious industrial injury to the man occupied in hazardous industrial trades and prevent unjust compensation claims to be filed against the Government. As a means of protection to fellow employees and to prevent unjust claims to compensation for injuries alleged to have been received by reason of industrial employment, it is recommended that as a condition of employment all Civil Service applicants be required to have a serological test, with the provision that applicants who show a positive serological reaction but no active lesions, shall be required to have continuous medical treatment until negative serological tests are obtained or the disease is pronounced non-infectious by the Yard medical officer. It is also recommended that the following the commended in the disease is pronounced and the following the commended in the disease is pronounced in the disease in the disease is pronounced in the disease is pronounced in t are pronounced non-infectious by the company physician. Medical treatment for Civil Service employees could be obtained from private physicians or public clinics, and such treatment could be evidenced by certificates signed by licensed practitioners, but serological examinations should be performed at the Yard dispensary in order that a uniform procedure may be followed.

Puget Sound Navy Yard, Bremerton, Wash.—The average employee of this Navy Yard is safety-minded, and a general spirit of cooperation with regard to accident prevention continues. The safety program has been carried forward with excellent results during the past year, emphasis being placed on education of men through indoctrination of the tests be made compulsory. As condition of employment, large private industrial corporations require serological tests prior to employment and at periodic intervals thereafter. If it is found that employees have active syphilitic disease, medical treatment is compulsory unless they assignment to the hazardous occupation. In addition to the entrance Navy Yard, Charleston, S. C.--In order that claims for industrial injury may be confined to those receiving such injury by reason of their employment in the navy yard, all applicants for trades listed as examination of chest, where necessary, prior to their employment or potentially hazardous, receive a special examination, including X-ray that where infection occurs subsequent to employment that serological

supervisors. Analysis of representative periods have shown that approximately 90 percent of all accidents are directly attributable to carelessness of the men. The record of 18 lost-time accidents among 5,985 employees as compared with 22 lost-time accidents among 4,022 employees in 1938 is considered very satisfactory.

During the past year the following additional safety measures have been undertaken: (a) a new type of face shield has been obtained for buffing and pollshing work which is a great improvement over goggles; (b) new double lenses for helmets have been obtained which are found to be much more satisfactory than the old; (c) salt tablet dispensers have been installed in all shops in which "hot work" is carried on; (d) ventilation of shops and offices has been materially improved, and is continuing to improve as funds become available for projected work; particle eye injuries as compared to men wearing no spectacles. Orcorrective spectacles have only one-eighth the number of imbedded (e) an investigation has shown that men on machine tool work wearing

> the present Navy specification welding glove has been found to be unsatisfactory, particularly for overhead electric welding. A number of men have been burned due to failure of exposed stitching in this glove. Safety Engineer that a suitable type of spectacle goggle without side due to restricted vision. It has been proposed to the Navy Department dinary cup goggles are unsuitable for most types of machine tool work pieces be approved for use on these types of machine tool work; and (1)

It has been proposed that a more suitable type of glove be approved.

The number of eye injuries among the regular Yard employees was more than double for the calendar year 1938 - 223 for 1938 and 457 for 1939. The increased number of employees can account for some of the increase but the eye injuries have increased out of proportion. Outstanding causes of injuries to the eyes have been poor fitting goggles standing causes of injuries to the eyes have been poor fitting goggles stand failure to use goggles in spite of educational activities on the part of the medical department, injury officer, and supervisors. It is gratifying to note that there were no lost-time eye injuries among the registrying to note that there were no lost-time eye injuries among the registrying to note that there were no lost-time eye injuries.

ular Yard force and only one case among the relief workers.

Statistics show a definite increase in all types of injuries among classes of employees except the Emergency Relief, Navy. This increase is out of proportion to the increased personnel and it is believes to be due to the fact that the shop superintendents insist that employees receiving injuries, no matter how slight or insignificant than the superintendents in the temployees receiving injuries, no matter how slight or insignificant than the superintendents in th they may seem in extent or severity, report to the Dispensary for treatment. This opinion is supported by the reduction in the actual number of "Injuries resulting in Loss of Time" from 22 during 1938 to 18 during 1939.

Navy Yard, New York, N. Y.--Welding: There are approximately 450 electric welders and 112 gas welders carried on the rolls.

with inadequate measures welding incurs certain health hazards, such as toxic gases from the arc of the flame, fumes or dust of metallic adequate to prevent occupational, diseases in welders under all cirdamage to the eyes from ultraviolet rays, etc. The question arises oxides of an injurious nature from the coating of certain welding rods, whether or not control protective methods now provided are entirely It is well recognized that in the absence of protective measures or

It was recommended to the Commandant in December 1939, at the suggestion of the Director of the Division of Industrial Hygiene, New York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health study of the 930 York State Department of Labor, that a joint health New York State Division of Industrial Hygiene. studies, the funds and bulk of the research staff to be supplied by the

It was believed that such a study would yield results of great benefit to the workers and that the findings would be significant as a check upon the present methods of control and of value to the U.S. Employees Compensation Commission in relation to certain possible future compensation claims. Other outstanding authorities in industrial hygiene were consulted and all concurred in the view that a large-scale health study of welders was required to settle definitely certain ques-

tions relative to hazards of the occupation.

Lead and Lead Compounds: There is little hazard incident to brush Lead and Lead Compounds: There is little hazard incident to brush painting in this Yard. Lead paint is used chiefly for the red lead painting to the hulls of ships. Zinc, titanium or aluminum paints priming coat for the hulls of ships. Zinc, titanium or aluminum paints priming coat for other applications. The enamel paints consist of a are largely used for other applications. The enamel paints consist of a zinc base in varnish and turpentine. No cases of lead poisoning have come to the attention of the Medical Department during the period un-

component of Babbitt metal in the Inside Machine Shop (No. 31). This metal contains lead, antimony, and copper. The lead volatilizes at a relatively low temperature. The melting kettles are equipped with a hood connected to an air exhaust system with suitable suction fan pipe and conduit to remove fumes which form on the surface of the molten inhalation of fumes. der consideration. Lacquer In addition, a respirator is provided for protection against the Metallic lead is handled in the molten state as

yand threshold concentrations. and some slow drying, which may lead to toxic symptoms if inhaled bemade up of a celluloid base with certain volatile solvents, some painting with spray technique is conducted with lacquers

the Ordnance Machine and Sheet Metal Shops a water spray curtain is also provided for more effective removal of fumes. The spray room of the paint shop is not equipped with a hood, dependence being placed upon an exhaust blower for removal of fumes. This lack of localized No cases of volatile solvent poisoning were reported during the calenexhaust results in a much slower rate of removal of contaminated air. are equipped with hoods connected to adequate exhaust systems. In The Ordnance Machine Shop, Electrical Shop, and Sheet Metal Shop

It is recommended that all spray painters be given an annual examination for evidence of toxic effects of volatile solvents.

Industrial Protection Against X-ray and Radium: (a) X-ray prochine of 220 kilovolts and 25 milliamperes capacity which was installed of flaws in pipe-welded joints for high steam pressure installation. The maximum number of exposures approximates a total of 51 minutes a day. (1) Engineering Control: The X-ray tube is encased in lead of 20 feet bounded by a shield 6-1/2 feet high, 10 feet from the tube in all includes and lined with sheet lead 2mm. thickness on three sides. (2) Medical Control: Four men are assigned as operators of the X-ray and radium installations. One of the earliest effects of radiation exposure is a destructive action on the white and red cells of the blood, more established for a quarterly blood examination of operating personnel and an examination for possible general radiation injury.

(b) Radium Protection.—The use of radium was initiated 4 to 5 years ago for the detection of flaws in castings constructed for high

pressure steam installations, both steel and non-ferrous. A capsule containing 278 mgms, of radium is the source of the radiation, the tests being conducted in the Inside Machine Shop. This is in use for an average of 150 to 200 hours a month. The chief metallurgist reports that high speed films exposed at a distance of 12 feet from the capsule are not subject to harmful radiation at that distance. for one hour showed no fogging. It is therefore concluded that employees

) gested that personnel within the distance of 40 feet external of the lead barrier would be subject to secondary radiation that the control of the lead Committee on X-ray Protection of the Bureau of Standards. He sugthat the blood count shows suggestive changes or the worker complains of an obscure aliment. The question arises whether the foregoing assures of protection against X-ray radiation are entirely adequate. measures appear adequate. It is emphasized that a thorough physical examination of a radium or \tilde{X} -ray worker shall be made before he is employed and at any time he situation was recently discussed with the Chairman of the Advisory

> for further protection can be definitely determined by actual measure-ments of scattered radiation by means of the portable ionization chamof such a possibility demands consideration. workers would probably not receive a damaging exposure, the question of such a possibility demands consideration. The absolute necessity It is recommended that the advisability of such tests be consid-

result of contact with arsenic, present as an impurity of the metal, with nascent hydrogen in the bath. Such a possibility appears extremely remote in view of the fact that the operations are conducted in the open air thus excluding the possibility of rising accumulation of arsenical compounds which might result in an enclosed space. Howannually for possible evidence of arsenic absorption instead of the ever, it is advisable that the operating personnel be examined semi-Precautions Relative to Pickling of Metals: (a) Building Ways, No. 1.--There are two sets of pickling tanks in this area one for flat steel and one for piping. The acid employed is dilute sulphuric. The questions one for piping in the second employed is dilute sulphuric. jected to the inhalation of arsine gas or arsenic dust originating as a tion at issue is whether at any stage of operation personnel are sub-

quarterly examination now prescribed.

(b) Coppersmith Shop.--Both sulphuric and muriatic acids are used in the vals of this enclosed space connected with the coppersmith shop. quate. The possibility of arsenical exposure discussed above also obtains for this space. Forced exhaust ventilation is provided and appears ade-A semi-annual medical examination of operating personnel is

advisable.

tration, size of the particles, percentage of free silica, and the duration of exposure. Whether or not a silicosis hazard exists in these foundries can only be determined by actual counts of dust particles concentration under the various working conditions and the estimation of free silica in the sand used. It has recently been reported by the New York State Department of Labor that silicosis can be prevented Occupational Dust Hazards: (a) The Steel and Brass Foundries.—The chief hazard to be considered is silicosts due to the inhalation of silica dust, the extent of the hazard being dependent upon the concensilica dust, cubic foot. if the average plant concentration does not exceed 15 million parts per

shop, (b) Casting Cleaning Shop.--The conditions in this shop appear to be particularly unfavorable. The iron and brass foundry buildings are equipped with forced exhaust ventilation although its efficiency in conpendence being placed mainly on roof cowls, which, it is believed, are trolling dust concentrations is undetermined. inadequate. however, is not provided with any mechanical ventilation, de-The casting cleaning

wheels and two carborundum grinding wheels are not equipped with suction ventilation. It is recommended that consideration be given to a ing shop to include dust counts and the measures necessary to reduce silicosis hazards. systematic engineering survey of both foundries and the casting cleanunder hoods with localized suction ventilation. Two high-speed emery Certain of the grinding and chipping operations should be conducted

There are 33 employees in the Iron foundry, 64 in the brass foundry, and 22 in the casting cleaning shop. It would be desirable to carry out a medical survey, including X-ray of the lungs, of all personnel in order to determine the incidence of silicosis. For the present, however, it is suggested that such a study be limited to employees in the

casting cleaning shop where the worst conditions prevail.

All candidates for employment for foundry operations should be given an X-ray examination of the lungs in order to screen out cases in

any state of silicosis.

cable to wear such a device constantly.

The buffing and polishing wheels in the Sheet Metal Shop are not equipped with localized exhaust. This is recommended as a safety prehowever, that workers exposed to heavy concentrations of abrasive dust are more susceptible to diseases of the chest than those not so exposed. Authorities in this field advise that an effort should be made contain free silica and therefore will not produce silicosis. However, if breathed for protracted periods, these dusts induce an X-ray appearance similar to that of early silicosis. This picture changes very slightly as length of exposure increases. There is clinical evidence, (c) Sandblasters.--The present practice of an annual X-ray examination of the chest, or oftener if so indicated, will be continued.

(d) Hazard of Buffing and Polishing.--The possible hazard incident to dust from artificial abrasives such as carborundum, alundum, and emery should be considered. The dust from these materials does not Although respirators are provided for individual use, it is impractithe dust count below 20 million particles per cubic foot. The approximately 50 percent abrasive and 50 percent metallic.

reduces to a marked degree the quantity of escaping dust provided with either individual exhaust or are kept constantly wet which grinding wheels in the tool room of the Shipfitter Shop are

ting Shop are exposed to the inhalation of asbestos dust incident to the cutting of asbestos insulating felt in the fabrication of covers for upon the concentration of the dust; the size of the dust particles, and the length of exposure. The workers in the Pipe Covering and Insulaand is distinct from silicosis. The development of the disease depends Hazard of Asbestosis: Asbestosis is an industrial disease of the lungs incident to the inhalation of asbestos dust for prolonged periods,

exhaust blower over work table in the Pipe Covering and Insulating Shop to remove asbestos dust at the source as a protective measure ditions. The following recommendation made jointly by the medical officer of the Yard and the safety engineer was approved; Install an 17 years, 6 men reporting 10 years or over. Present and past disability attributable to asbestosis was denied by all the men and X-rays of the chest were essentially negative in all cases. However, it was not considered that the negative findings precluded the future developflanges, valve bonnets, and high temperature steam turbines. The material falls under the trade name of "Amosite."

A medical survey of the 11 employees in this Shop was conducted recently with the object of ascertaining whether asbestosis in any stage could be detected. The history of exposure varied from 1.7 to ment of asbestosis by continued exposure to present occupational con-

against the hazard of asbestosis.

Norfolk Navy Yard, Portsmouth, Va.--Considerable work has been accomplished in industrial medicine. The medical officer, safety engineer, and W. P. A. Safety Supervisor work in close consultation. In and the Navy Department Safety Engineer have been consulted on sevblem is properly coordinated. The Bureau of Medicine and Surgery this manner the medical and technical aspects of each industrial pro-

eral occasions and have given valuable suggestions.

regard to industrial medicine to be used for reference purposes. Special attention is given to the working conditions in hazardous occupations such as sand-blasting, asbestos pipe-covering, amosite and fiber-glass insulation. Ventilation, clothing machine of a process of a period of a peri A special effort has been made to collect literature and data with

> recommending standard items of as near one type as possible. regard to types of masks, helmets, and respirators with the idea of blasting are of various types. A special study is being attempted with

time since the introduction of the product is too short to warrant any definite conclusions at present. Until further information is available the following precautions are in effect: The employee must wear hood, respirator, and gloves at all times; the clothing must be loose and cover the arms and neck; goggles must be worn if there is excessive circulation in the compartment; and showers are required before circulation in the compartment; An extensive study of a new insulating material, fiber-glass, now employed by the Navy, has recently been carried out by this department. Representatives of the manufacturers of this product have been clothing and a good cleansing shower at the end of each working day. The evidence submitted is not entirely convincing, and the period of interviewed, and numerous reports of clinical and laboratory investigations have been reviewed. The representatives claim that no harmover a period of 6 years, and the only precautions used are loose ful effects from the material have been noted among their employees lunch and at the close of the day.

At present the Norfolk Navy Yard has no instruments for making dust counts. The acquisition of at least one of the new and recently improved instruments would be a great advancement in the field of industrial medicine at this Navy Yard and would afford an opportunity

regard to personnel, new materials, new machinery, and new processes. Safety devices and rules should maintain a high standard. This aspect should be studied, developed, and mastered. It requires a problem and requires continued, intense, effort and research with cooperation in safety engineering and intensive study of industrial for considerable research.

The hazards to civil employees consequent to industrial activity is

juries, no matter how trivial, to the dispensary, where they are promptly treated. A follow-up system is also used whereby cases must report for daily observation and redressings until discharged. Many cases of colds, grippe, and bronchitis have developed among the civicases of colds, grippe, and bronchitis have developed among the civicases three times daily with antiseptic sprays, cough mixtures, and cases three times daily with antiseptic sprays, cough mixtures, and Naval Torpedo Station, Newport, R. I.—The number of infections following injuries remains low among civil employees at this station. This is due no doubt to the cooperation of all concerned in routing inspite of the increase in employees. By comparative classification we find that in 1935 there were about 4,962 injuries among 2,493 employees and in 1939 about 3,500 injuries among 3,852 employees.

A general physical examination of all workers in explosive macold capsules, and the prompt checking out of cases with elevated temperatures, an appreciable decline in lost-time incidence has been noted. It is encouraging to note that accidents are on the decline in health problems.

terials, including a complete blood analysis and urlnalysis, has been done monthly since October, 1939. An effort is being made to prevent occupational poisonings, with particular reference to tetryl and fulminate of mercury. To date no statistical data have been completed. Sand-blasters are examined routinely each month, and routine chest X-rays are done every three months, oftener if thought necessary.

015-00

March 11, 1941.

HYMORAHDUR FOR ADRIBAL MOISTIKE

Subject: Notes for consideration when you call on Assistant Secretary Bard.

- l. He sake specifically what the policy is concerning invitation of such people as Mr. Rimmer of the Bursau of Labor Standards, Labor Department into the Mayy Tards to make a curvey of the welding and other heards. I teld him that we had sever done that sort of work and recommended against it, as I know who Mr. Rimmer intends to send in if it should be done.
- 2. My meeting with Mr. Bard was specifically due to the fact that Captain Picher had written a letter to Dr. Salby inviting him to make a survey of Many Yards, with particular reference to health havards, and make recommendations to the Shore Establishments Division.

I gave Mr. Bard and the two efficers present a semplete story of the beginning of this controversy from the Federal Administrator's letter; that is, that the United States Public Health Service had four teams of travelating accentists alleged to be able to make surveys of all of the Many Tards and make recommendations for the correction of such hazards as were discovered. I told Mr. Mard that this was not considered the best policy, due to the fact that we had medical efficers in the Tards and that in practically all instances recommendations of sound character had been made by medical officers. Ms saw to need of inviting the United States Public Health Service on its even invitation to de this jeb.

3. Likewise, I teld him that I had spoken to you and that you had indicated that President Rosswelt thought that this might not be the best solicy, due to the fact that they might comes disturbance in the labor element.

4. Paints of great interest:

(a) Such health hazards as silicesis in our foundries. None of our foundries would pass the necessary inspection to obtain worknes's compensation insurance from any of the insurance organizations. I doubt if any of our foundries would be telerated if the State industrial health people were to make surveys of them. Repeated recommendations have been made by the medical efficers attached to these lards that studies be made on dust concentrations and steps be taken to remedy this condition.

- (b) Sand blasting. Several recommendations have been made with reference to sand blasting and the danger from this hazard with particular reference to the production of silicesis. Since these recommendations have some in, we now are meing steel shot rather than sand in sand blasting, but this is still a hazardous trade and might be rectuded.
- (c) Velding. Velding is a herard under sertain circumstances; that is, if nitrous funes are encountered and these can be completely edviated by reasonable exhaust untilation. However, several people have completed that we are doing welding under dangerous conditions. I frankly admitted that we had no data an which to make a considered opinion, but we would isseed at a several with a view of determining the concentration of funce of terie metals or substances that might be in the welding rod.
- (d) Solvents. Too little is known on the question of solvents and since there is a controversy between the texteologists and industrial hydraxists on this point, it will be messessary to de very careful survey to determine whether we are in trouble.
- (a) Rydrogenated hydrocarbons. This is a satter of considerable concern in industry and we may be getting damage from mome of these, but no surveys have been made to tell me the concentration of these compounds.
- (f) We flashes from unprotected electric ares, such as relating and peuring. This can be completely obvicted by using ereans for the vertues.
- (2) Colsium dust, enoke and funes. How are doing as much admine welding as is indicated by unofficial information from the leld, we may be in a position to be acriously criticised about this. Its also needs research to determine the sencentration.
- (h) Chromium trioride. Chromium plating is one of the neurons competions in that people frequently have perforated plant from irritation from chromium triexide. Duch plants as I as seen doing plating in the Havy appear to be fairly well apple have been damaged from this hazard.
- (i) Asbestosis. We are having a considerable amount of the dens in asbestes and from we observations I am deriain that we not protecting the sens as we should. This is a matter of offi-I report from several of our Bary Yards.

Ye are not doing a very had job of selety as we have won rards, but there will be a transmissions increase in the number of non-

4

fatal accidents, some of which will be lost time and some of which will be non-lest time, with the increase in personnel. This is already apparent from the reports from the Yards. If this is not enough to hold them down, I will give you all the additional information you need.

0. 8. Stephenson, dominader (NO), V. S. Navy, In Charge, Mv. of Preventive Hedieine.

U.S. Havy - U.S. Maritime Commission - War Shipping Administration O Comment of the Comm

Safety and Industrial Health Program

Report on Investigation

of

Asbestosis from Amosite Pipe Covering at Bath Iron Works

Bath, Maine

December 19, 1944

References: (a) Report of Industrial Health Survey of Sept. 24, 1942.

(b) Re-survey of April 9, 10, 1945.

Sept. 20-23, 1944.

(a) "Minimum Requirements for Safety and Industrial Health in Contract Shinyards" approved by U.S. Navy, U.S. Maritime . Commission and ar Shipping Administration.

This document contains information affecting the national defense of the United States within the meaning of the Espiciage Act CO U.S.C. 31 and 32. Its transmission or the revelation of its contents in May canner to an unauthorized person is prohibited by law.

W. C. Dreessen, Surgeon, U.S. Public Health Service, Bethesda, Maryland W. E. Fleischer, Lt. Condr. E. USHR, Health Consultant Office of the Regional Director of Construction U. S. Earlithne Countssion, East Const.

Authority FEDERAL MARITIME COMMISSION 1982 HOT , NARA, Date 1/3/0

'mrsonnel interviered:

This investigation was made at the direction of the Chief Health Consultant of the U.S. Expiting Commission, inasmuch as we had heard that there was concern among the pipe covering crews who feared that the amosite was causing some respiratory troubles.

Medical

There are about 120 workers engaged in han ling asbestos in the Pipe Coverer's Ehop and on board ships under construction. Chest X-rays are being taken first on those with the longest exposure, i.e. over two years, of which it is estimated that there are about 50 workers. In the year future all of the 120 will have a chant plate taken.

been handling astestos nipe covering from 2 to 9 years. It was interesting to n to that the two in dividuals with the longest exposures of 5 and 9 years were in the older age group, being 59 and 65 years of age respectively. All of the 38 films were reviewed and 12 of these putients showed significant X-ray changes consistent with exposure to a dusty environment. Mistery and physical examination by Dr. Fuller indicated that in all of the 38 patients respiratory symptoms and physical signs were minimal.

On X-ray interpretation these 38 patients could be divided into four groups:

1. The two older workers referred to above, the appearance of whose chest Vernys was consistent with the diagnosis of well established asbestosis. These plates also showed signs typical of advanced age, such as cardiovescular changes, etc.

- A group of four workers whose emposite was from two and a half to four years whose chest T-ray appearances were consistent with a dingnosis of asbestasis.
 - A group of six morkers whose exposure was from two to two and a half years and whose chest films showed minimal changes but not sufficient for a definite diagnosis of ashastosis.
- 4. A group of 26 vortors whose exposure was from two to two and a half years and whose chest films were considered negative.

It was considered significant that those workers with the most marked X-ray changes were those who presumably were exposed to the heavier concentrations of dust, such as operators of the band saw and small rotary power driven saws.

In those vorters whose Terays were consistent with a diagnosis of asbestosis, the changes consisted of bilaterally symmetrical increased reticulation of the lung fields resembling a ground glass appearance. Such lung field markings are indistinguishable from those induced by chrysotile asbestos. No evidence of active tuberculosis was noted on any of the films.

Description of Pipe Coverer's Shop

This shop occupies about half of a loft and is partially segregated from sheet metal merkers at the other end of the loft. The more dusty phases of the work such as bond saw cutting and the mixing troughs are located at the far end of the loft. Local exhaust vontilation rms installed on the band saw several months ago and removes some of the dust arising during the cutting of sipe insulation. Respirators were being worn by several workers using the small rotary naws. It is anticipated in the near future, that the insurance carrier, American Mutual Liability Insurance Co., of Boston, Mass., will take dust samples throughout the shop. We know the personnel of the incurance carrier, have discussed the problem with them and would have complete confidence in their apnruisal of this job.

Recommondations:

- 1. It is recommended that all of the remaining asbestos workers be given a chest X-ray in the near future.
- 2. Unless the dust emosure is controlled as outlined below, the morkers in groups 1 and 2 above, should be transferred to a non-dusty occuration.
- 3. Grows 1, 2 and 3 should have a chest K-ray at yearly intervals.
- 4. If the dust exposure is not controlled all asbestos workers should have a chest Y-ray at yearly intervals.
- 5. Thile the local exhaust on the band saw removes a considerable proportion of the dust, it is not considered adequate. This ventilation should be corrected so that the dust is removed.
- 6. Unless properly ventilated the band saw and mixing trough operations should be isolated from each other and from the rost of the shop. All morkers on these operations should wear either approved air line respirators or respirators approved for pacumosomicsis-producing dusts.
- 7. If the dist counts taken by the insurance show, that after isolation of the above operations, the amount of asbestes dust in the general shop is sufficiently high to produce an asbestesis hazard, then the general ventilation of the shop should be improved.

Note: Reference (a) recommended as follows:

The conditions in this shop present a very real asbestosis hererd and immediate steps should be taken to sogregate the most fasty processes into a well ventilated erea. Local exhaust systems of proper design should be installed; however, if conditions cannot be completely controlled in this manner, then suitable dust respirators should be worn by the workers. Periodic physical exertinations of the chests of all morkers should be made."

VI D

Talk before M.C. on Octoor 23, 1942.

Philip Drinker, (cultant to the M.C. and Professor of Industrial Hygiene Harvard School of Public Healths Boston, Mass.

It was decided by the M.C. and the Navy that an industrial health survey of selected yards should be made. In order that the plan should be carried out as expeditiously as possible the Navy loaned the MC. two MD's with industrial experience (from Norfold and Philadelphia yards) and four ensigns, graduate engineers and chemists, who had been specialized also in industrial hygiene and ventilation.

In addition, Mr. John Roche of the National Safety Council was asked to inspect the safety engineering set-ups in many of the yards but there were several we covered which Mr. Roche has not seen.

Our schedule included visits varying from one to three days to six yards under Mavy operation, eleven under M.C., and three doing work for both M.C. and Mavy.

Gulf Shipbuilding Corp.

Houston Shipbuilding Corp.
California Shipbldg. Corp.
Los Angeles Shipbldg. Corp.
Western Pipe & Decal Corp.
Moore Decale
Kaiser decal Shipbldg. Corp.
Seattle- Some Shipbldg. Corp.
Green Taginaguing Co.

and a sold the desiremental desired and and the

Lathem D. Smith Shipbldg. Co.
American Shipbldg. Corp.
South Arbland Shipbldg. Corp.
Toddeller L.V. Shipbldg. Corp.
Bathele Yorks
Electric Seat Co.
Rhoom Indiacturing Co.
Bethler a-Fairfield Shipbldg. Co.
North Carolina Shipbldg. Corp.
Tampa Chipbldg. Corp.

1.5 July . Mobile, Ala. Houston, Tox. . Terminal Island, L.A. · San Polyo, L.A. Soc San Francisco Oaklopt Richard Powdlazi, Oregon Terrone Piver Pours. Moh. & الأغفال وهشاءا للاعلامة M.C. Sturgeon Bey, Wise 35.00 Lordin, Ohio 11.0. South Portland, Ma. -· South Torbland, Ila. Paris Military Cross to Conn. Prodicense, Rhede Is. nellinero, Paryland M.C. train ingeorgale Ce Tam is lighteda

In general, medical set-ups in the M.C. yards were better than in the Navy operated yards although several experienced firms on Navy contracts had good medical protection. The MD's steffs in at least two of the Navy operated yards were way below the caliber of those one sees today in Navy yards like Boston, Philadelphia, and Norfolk where they have anything from twelve to twenty-five MD's for 15,000 to 40,000 employees.

The M.C. yards generally had good medical personnel and often had them in sufficient numbers, but a few yards are short of MD's and it would be to the M.C.'s interest to see that this situation is corrected quickly. Similarly, we believe the Navy should help out in some of the Navy operated yayards by drawing the necessary personnel from elsewhere.

We believe that these yards whether M.C. or Navy operated should have at least three doctors for a yard of six thousand men and one doctor for each additional five thousand.

Inspectors and Visits: In many of the yards — but by no means all — both management and medical personnel felt that the doctor's job was to remain in the yard dispensary and to treat the patients brought to him.

Few of the doctors had the remotest idea what work in double bottoms was like. They could give no firsthand advice on preventing flash burns, had no idea what men ought to wear safety shoes, and in one very well run yard had not the slightest idea what solvents were used in paints or how one of the men could possibly have been made ill by carbon tetrachloride. That point of view in industrial medicine is entirely out-of-date. We can show you manufacturing plants in all parts of the United States where the industrial physician is a competent physician yet inspects the entire plant

several a times a week. He thereby learns what the men are doing and the men see him and know he is looking after their health and welfare. The effect of morale is excellent.

We have seen only two yards in which the medical staffs had the slightest idea how medical problems were met in other yards. The Navy has, in my opinion, been particularly remiss in not requiring its medical officers to visit other yards and especially to visit civilian operated yards. For instance, Bethlehem Steel Corporation for some years has had large yards in various parts of the United States. So far as I can find by asking the doctors at the yards belonging to Bethlehem they have never been visited by Navy doctors, yet the Navy suddenly has been forced to become one of the largest industrial employers in the country.

In short, we think M.C. and the Navy should require occasional interyard visits by the medical personnel and these visits should include men from the Navy yards such as Boston and Norfolk. They should see each other's set-ups, records, methods of handling patients and they should see something of the yards.

Provision for Women: Very few yards have made medical provisions for employing women although most of them realize fully that women are certain to be employed extensively in the very near future. It is, of course, obvious that dispensaries must be enlarged in order to take care of this new class of employees.

Shart Beach with girling and a second

Air Raid Precautions: Very few yards have provided emergency first aid depots against air raids. We believe a national plan should be made so that no yard will be caught with all its medical supplies in one building.

Co-operative Hospital Plan: In the Kaiser yards at Richmond, Portland and Vancouver, Dr. Sidney Garfield has organized a medical injurance scheme, which goes a good deal further than the Blue Cross plan which is in such wide use now throughout the country. These yards, for fifty to sixty cents weekly, will give shippard employees complete medical and hospital care. If the man is too ill to come to the hospital himself they send a doctor to him and bring him to the hospital if necessary. Garfield expects to expand this service to include care of the workers' families. The effect on stabilizing the laboring population is very good. We have seen nothing in the yards in other parts of the country in any way comparable and recommend the scheme for serious consideration.

Turnover and Overtime Work: We do not believe either M.C. or the Navy is strict enough about requiring a day off regularly every week, including executives, for all employees. Men in all salaried groups are ready enough to work seven days a week and foremen are particularly eager to do it because of the extra pay. The arguments against continuous work leave no ground on which the practice can be supported and we urge in the strongest terms that a day off in every six or seven be required of all persons.

A day off scheduled in advance is one of the best preventatives against migration and turnover.

Accident Records: I do not consider the present M.C. accident report adequate. We think it should be made a little more complete so that one can tell from time to time how many flash burns of the eye occur, how many broken toes, and the like. You can get such information from the forms used in the Navy yards like Boston's but you can't get it from M.C. yards.

You now can find out easily the number of accidents causing absences of seven days or more but can't tell how many accidents causing a few hours lost time or a few days occur. MC should know the score from anything which makes men go to the dispensary -- such trips cause lost time. The M.C. can get such information easily with very little change over the record system now in use.

Safety Departments and Accident Insurance: In most of the yards visited the Safety Department is short on personnel and has not enough authority. In some of the M.C. yards the safety engineer from the insurance carrier has an office adjoining that of the yard and they work together. In other M.C. yards the insurance man was looked upon as an unmitigated nuisance and had little or no authority.

We are far from satisfied with the present insurance set-up in M.C. yards. Unlike other items which ought to enter into the cost estimates on ship construction, insurance against accidents and health in M.C. yards comes in under cost plus. The private manufacturer or mining company on the other hand, properly charges accidents and industrial disease against costs of production. The result is, in the M.C. work, it is not worth cash to anyone to reduce accidents and lost time. The private manufacturer, on the other hand, has to keep down accidents whether he is insured or not because adverse results appear very promptly in his production costs. At the present time the inducement to keep down industrial accidents and ill health is entirely that of plain decency and common sense. We believe very strongly that conditions can be improved greatly if it is made

a bonus and penalty arrangement for lost time for all causes and suggest that the arguments pro and con be put before appropriate labor-management committees and handled through them. We do not imply any criticism of the insurance carriers because of the present situation. Definitely it is not their fault and has come about largely because of the great haste necessary to get our national shipbuilding program under way.

Physical Exams: On the west coast the labor contract includes a very unfortunate stipulation that no physical exams of any kind are to be given men either pre-employment or check-up. From the health standpoint it would be hard to devise an item which will do more harm to labor. Admitting the misuse of such exams in the past by a few thoroughly stupid employers and insurance carriers it does not follow that all employers and all insurance carriers are bad. We saw in one very well run yard on the west coast men exposed to dangerous amounts of asbestos dust used in pipe coverings and on breechings. These men should be examined every six months but now cannot be because of the labor contract. In all yards accomptive operators, painters, and certain others should be examined periodically.

A failure to do so is dangerous to the man himself and often to his fellow workers.

Respirators: On the east coast but not on the west red lead paint is sprayed. We approve of this and, if property done, do not consider it a health risk, but greater care should be exercised in the east coast yards than now is in effect or lead poisoning will certainly occur. Most of the yards on all coasts are either careless or ignorant or both in the use of respiratory protective equipment. This situation should be corrected and

corrected promptly by having occasional shippard safety meetings (which are held frequently) devoted to the use of respiratory protective equipment.

Ventilation: The ventilation of ships under construction is handled differently in every yard. Few of them appear to have any appreciation of the fact that the same problems occur in all yards. In general, it seems to us that the best results are attained when the ventilation department comes under "safety" although we have heard very convincing arguments that ventiation belongs properly to the electrical department or to the welding department. We saw but one yard with a man who really knew any ventilation engineering and was applying his knowledge to make conditions comfortable for the men. In most yards, fans and duct work were handled about as our office stenographers would handle common desk fans.

Practically no yards have taken any trouble to educate the men, especially welders and painters in the use of local exhausts. On many occasions we saw welders in double bottoms failing entirely to use good equipment intelligently. Men doing spray painting and sandblasting generally have no conception of what respiratory protection they should have, and often we found that the foremen and leadermen understood the risks of the job no better. The correction of such ignorance can only be brought about gradually by safety meetings with appropriate short talks. We feel confident that the personnel we suggest for a permanent M.C. medical organization will be entirely competent to give such talks in each of the yards as they visit them.

Several of the yards had devised various ways of improving ventilation of fore and after peaks during prefabrication. Certain plates are left off.

In one Navy operated yard, permission had been given to leave out a plate while installing a prefabricated forepeak. The result was excellent ventilation. In our opinion, a uniform policy in regard to such matters should be formulated in which it should be possible to state what ventilation in c.f.m. is required for specific jobs and what plates are to be left off during construction. As M.C. knows, there are frequent complaints about the lack of ventilation in various welding jobs, especially on G.I. and in many cases, the complaints are justifiable. In one of the labor contracts, it is stated that workers are to get pay and a half on jobs in which the conditions are unsatisfactory. In our opinion, it is no longer excusable to have such conditions.

Goggles: The use of anti-flash goggles (shade 2 or $2\frac{1}{2}$) beneath welding shields of 10 shade is practiced in some yards, but most of them have no clear cut policy. Both M.C. and Navy are very lax in preventing eye flashes, the commonest trouble encountered in ship yards. The use of portable welding screens around welding jobs, especially in prefabrication work, is very sketchy in both M.C. and Navy yards. This is the safety departments' job, but the results will remain at their present unsatisfactory level unless the safety departments are given more authority and unless much more is expected of them.

Unknown Chemicals: There is no systematic labeling of solvents used for paint spraying, brush cleaning and the like in any yard, and no one now is held respinsible for seeing that proper precautions are taken in using toxic solvents. Industry - and M.C. belongs - no longer can order and get just what it wants. It uses what is available. But the medical and safety departments in all yards should be held accountable for the

toxicity of anything used in the yard. In private manufacturing plants, this responsibility is thus assigned, and the purchasing department notifies the medical and safety departments when any new substance is to be used. Makers of solvents must state the chemical names of these ingredients, but there is no reason why they should not use their special trade names which usually are a lot simpler than the chemical names.

Safety Stores: The dispensing of special equipment like safety shoes, goggles and gloves, is handled differently in each yard. While we approve of such autonomy, we insist that safety equipment ought to be made available with the minimum of inconvenience to the men. You cannot expect the average workman to go to the trouble of going downtown to a shoe store to get a pair of safety shoes. He simply won't do it, human nature being what it is. The stores should be in the yard. We don't blame M.C. or the Navy for keeping out of the shoe business, but if toe accidents reach the levels in certain Navy yards where they now are, the Navy and no one else is accountable. (I am aware of the Federal law which prevents a yard granting an exclusive sales right to one shoe manufacturer.) In some yards the management sells the shoes at cost, but I know of one private manufacturer who subsidizes each pair of shoes to the tune of one dollar, and then fires any workman who fails to wear safety shoes when required. So far as our opinion goes, it makes no difference how the problem is handled, but I think we have every right to insist that safety shoes, hard hats, and goggles be worn on special jobs. A great many yards now are very backward in these safety measures and attempt to pass the buck to safety equipments manufacturers who cannot keep up with the demand. We inspected safety supplies in every yard we visited, and in

many cases saw abundant supplies when the men in the yards were not using them.

G.I.: Metal fume fever is a temporary illness which results from breathing zinc oxide evolved when G.I. is welded by either gas or electricity. It is known to any man who works in G.I. The effects are not cumulative, like lead poisoning, but they are undeniably unpleasant. In our opinion, both the Navy and the M.C. would build ships faster and have less trouble all around if they reduced to the absolute minimum the amount of G.I. now being used, especially on destroyers.

now being used, especially on destricting

Welding Painted Surfaces: In every MC yard visited and in some Navy operated yards, we noted apparent lack of coordination between the inspection and the paint departments. It is the usual practice to paint all surfaces, including seams and edges, as soon as possible after erection is complete, and even before erection. Then the inspector chalks off a place which has to be rewelded. The welder picks up the mark and does the job, always without cleaning off the lead paint. He simply boils it off with his electric arc. We would call attenti n to the fact that one of the worst epidemics of lead poisoning our country experienced was from following out the provisions of the ship dismantling treaty when we cut up some of our old ships with acetvlene torches. Lead poisoning resulted from volatilizing lead paint on pipes, deck plates, girders, and the like. We have not seen a single yard taking proper precautions to prevent lead poisoning from welding painted surfaces, although some of the East Coast yards now are doing routing examinations of the men to detect early lead absorption. What we urge then, is that MC require painting after welding jobs are done and not before.

Open Air Sandblasting: In the Portsmouth and Norfolk Navy yards, and in two Gulf coast yards, we have seen sandblasting does out doors in order to clean surfaces for galvanizing and one West Coast and two Great Lakes yards, we have seen ship bottoms sandblasted prior to painting. It is easy enough to protect the sand blaster so that he runs no danger of getting silicosis from breathing excessive amounts of silica (sand), but it is difficult to protect the helper and the men who must see to the sand supply. When the wind is favorable, there probably isn't much danger to others but as we have seen the operation carried out, it is unquestionably a silicosis risk to several men.

as well as an eye hazard. If the Navy eliminates or reduces greatly, galvanizing, there probably will be much less sandblasting and our oriticisms then will not apply, but as things were being done at the time of our visits, silicosis is well nigh certain. If sandblasting is to be continued, it should be enclosed in a modern sandblasting chamber. The argument that such chambers are not large enough to take destroyer hull plates is refuted by the fact that the Pullman Company today sand blasts an entire railroad car indoors, while sandblasting freight cars is practiced by several of the railroads in their repair shops.

Salvage: With two exceptions - and these were privately operated yards on Navy contracts - the salvage programs in all yards visited left much to be desired. It is our opinion that failure to salvage and re-use paint cans, nuts, bolts, rivets, and the like is more the fault of MC and the Navy than of the contractors. With metal shortage now playing such a vital part in our national program, it is hard to excuse present wasteful methods.

Housekeeping and Sanitation: The new yards which are not cramped for space generally are neat and ship-shape, especially those to which Navy Engineers are detailed. We found no yard that had a cafeteria or canteens which compared at all with those one can see in many large plants throughout the country. Some MC contractors stated flatly that either they were going to run a shipyard or a series of cafeterias, but not both.

We sympathize with the yard managers, but we doubt if the answer to the difficulty consists in getting rid of the cafeterias. Good food,

decently served, is one of the best labor stabilizers known,

We suggest that both the M.C. and the Navy should consider this problem fully and take action together. There are several possible courses: (1) Hire experienced caterers in each district to run the cafeterias, (2) Have local caterers each day stock canteens placed around the yards and sell milk, hot coffee, and possibly soup, (3) Have a local caterer outside the gates sell wrapped sandwiches to men who now have no way of getting their own lunches, (4) Do nothing whatever except to see that local health authorities exert reasonable control over lunch wagons and small restaurants which spring up outside the yard.

We would point out that firms like General Electric, General Motors, and American Viscose now operate cafeterias on a very large scale. The food is so good that the men are very apt to take their principal meal at the plant, and many of the plants have such cafeterias open 24 hours daily and serve the meals to men and women who have only 20-30 minutes available.

General clean-ups of lunch scraps were good in most yards but very sloppy in others. In a few yards, especially in the warm climates along the gulf, rats became more than just a nuisance and the board of health was asked to clean them out, but this was unusual.

Most yards are near large cities which often dump their untreated sewage into the harbor near the yards. Naturally, the yards dispose of their sewage similarly. In one yard, we suggested that the plant doctor's program of typhoid innoculations of men working near the water be carried out, but we rather doubt if sewage, water supply, or mosquitces will prove a health menace in shipyards. In general, these items have received proper consideration.

Permanent Industrial Medical Set-up for MC and Navy Operated Yards;

In our opinion a permanent industrial medical and industrial hygiene set-up for MC is desirable. From talks with AFL and CIO officials it was clear that both unions would welcome such MCnaction. It would, in our opinion, be a serious mistake to create a large office or to centralize and co-ordinate medical control through a single bureau. But many of these yards need help and some of them soon are going to get lead poisoning and other industrial disease cases in fair number.

We suggest the following:

A full time medical director taken from industry.

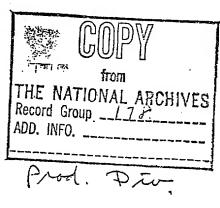
An assistant medical director taken from the Navy Medical

Corps with the rank of lieutenant or Lt. Commander.

At least six engineers trained in industrial hygiene taken

either from the Navy, the Army, or from industry.

We need at least two laboratories to handle the chemical and medical work which will result. One available lab is at the Harvard School of Public Health while we are confident suitable arrangements for another can be made with the California State Industrial Hygiene Bureau at Berkely, Celifornia. It will be necessary to hire one chemist, preferably a woman, for each of these labs for analyses just as such samples are now handled by many of the state hygiene bureaus and by several of the insurance companies.



BOK 534

TO THE MARITIME COMMISSION

WASHINGTON, D. C:

INDUSTRIAL HEALTH SURVEY

of the

SOUTH PORTLAND SHIPBUILDING CORPORATION

and the

TODD - BATH IRONWORKS

SOUTH PORTLAND, MAINE

September 18, 19, 22, 1942.

Philip Drinker, Harvard School of Public Health H. K. Sessions, Lt. Cmdr., (MC) U.S.N.
T. P. Connelly, Lt., (MC) U.S.N.
Kenneth W. Nelson, Ensign H-V(S) U.S.N.R.
Morwick Ross, Ensign H-V(S) U.S.N.R.
:L. H. Woodman, Ensign H-V(S) U.S.N.R.

Water Supply: The water supply of the city of Portland is furnished to both of these yards. An elevated tank containing city water is provided for fire protection. No health hazards are involved.

Sewerage: All sewage from the yards is disposed of by discharge directly into the ocean. The city of Portland disposes of its wastes in this manner, and the yards merely follow suit. Adequate toilet facilities, conveniently located, are provided for both yards.

Cafeteria: The major defect in both of the cafeterias was the entire lack of control of flies. They were extremely numerous in all parts of the cafeterias. A detailed inspection of the South Portland Tard's cafeteria has been made by the Maine State Health Department officials, and the report shown to us. It is planned to have the cafeteria at the Todd-Bath yard inspected also.

Housing: There is a housing shortage, but apparently it is gradually being solved without involving any health hazards.

Mosquito Control: Ho mosquito control program for health reasons is necessary.

Housekeeping: The general housekeeping in these two yards was poor. The ships were especially dirty with chippings, shavings, nuts, bolts, etc. all over the decks. The appearance of the yard grounds was also messy.

Pipe Covering Shop: Both yards had shops where asbestos coverings were made for the pipes in the ships. The work involved was the cutting and pounding of the asbestos matting into the desired shapes. The process

created a very real asbestos hazard, as the dust and fibers were found all over the shops on rafters, machines, benches, and on the workmen's clothing. The most dusty processes should be segregated into a well ventilated room and periodic examinations of the worker's chests should be made.

Rubbish and Garbage Disposal: The yards incinerate all rubbish while the garbage is collected and hauled away by an outside contractor. Perhaps an inadequate number of rubbish containers contribute to the poor house-keeping in the yards.

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United States Maritime Commission

WASHINGTON

55 Shattuck St. Boston 15, Mass.

RECEIVED

January 8, 1944

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AUG 17 1981 LEGAL BETTE

Bureau of Ships Navy Department Washington, D. C.

Gentlemen:

Attn: Captain Ingram, Room 2074, Building T5

Yesterday I received a long distance call from Mr. W. G. Hazard, Industrial Hygiene Division of New Jersey, Trenton, New Jersey, in which Mr. Hazard stated that the union men at New York Shipbuilding Co. had asked their help regarding the use of Amosite for pipe insulation on Navy vessels they are constructing.

I happen to know the union official, McCloskey, who is not easily put off and who is distinctly on the reasonable side. They ask: (1) how generally is Amosite used, (2) will the Navy allow the use of anything else, and (3) what protection, if any, is needed.

It seems to me these are reasonable questions and should be answered. I know Hazard very well - he is a U. S. Public Health Service officer assigned to New Jersey for the duration. His only desire is to help the company get on with its job and do it without damaging anyone's health.

Hazard stated that Dr. Goldman of the Bethesda Labs (U.S.P.H.S.) found the Amosite to be mostly asbestos. Dust counts in the room where the men were working were very much higher than anyone would recommend - they ran up to 25 million. A figure of 5 million for asbestos is recommended.

If this material must be used, I suggest the men be required to wear Bureau of Mines dust respirators approved for the nuisance dusts, or else that the material be applied wet. If the latter expedient is impracticable the job ought to be ventilated.

We would point out that we had some bad spots in baby aircraft carrier construction at our Kaiser Vancouver yard. After a little bit of work with the Labor-Management group we got the men to wear air line respirators and they now use them without making any objection. The use of dust respirators in both Kavy and Maritime yards is sketchy. Both organizations could save a lot of trouble by having them used more - just as the mining industry has done.



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United States Maritime Commission Washington

Page 2.

Please write or telephone as soon as possible as the matter is urgent. We can easily have a labor disturbance, especially if we ignore the complaint. It may be better to handle it verbally - hence the request that you telephone me (ONgwood 2380). I will then phone Hazard at once or you can.

Sincerely yours,

Cc: Comdr. H. K. Sessions U. S. Maritime Commission Philadelphia, Penna.

Philip Frinker

Chief Health Consultant



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U.S. Navy - U.S. Maritime Commission - War Shipping Administration

Safety and Industrial Health Program

Report on Investigation

Asbestosis from Amosite Pipe Covering at Bath Iron Norks

Bath, Maine

December 19, 1944

References: (a) Report of Industrial Health Survey of Sept. 24, 1942.

Re-survey of April 9, 10, 1943.

Sept. 20-23, 1944.

(a) "Kinimum Requirements for Safety and Industrial Health in Contract Shinyards" approved by U.S. Navy, U.S. Maritime . Commission and ar Shipping Administration.

This document contains information affecting the national defense of the United States within the . meaning of the Espiceage Act EO U.S.C., 21 and 32. Its transmission or the revalation of its contents in any canner to an unauthorized person. is prohibited by law

W. C. Dreessen, Surgeon, U.S. Public Health Service, Bothesda, Maryland

M. E. Fleischer, Lt. Comdr. ED, USHR, Health Consultant Office of the Regional Director of Construction U. S. Maritime Countains, East Coast

> Authority FEDERAL MARTIME COMMISSION 1982 ., NARA, Jate _87

'personnel interviered:

This investigation was made at the direction of the Chief Health Consultant of the U.S. Maritime Commission, inasmuch as no had heard that there was concern among the pipe covering crews who feared that the amosite was causing some respiratory troubles.

Medical

There are about 120 workers engaged in han ling asbestos in the Pipe Coverer's Shop and on board ships under construction. Chest X-rays are being taken first on those with the longest exposure, i.e. over two years, of which it is estimated that there are about 50 workers. In the year future all of the 120 will have a chant plate taken.

Dif the 50 work was 38 have already been T-rayed and all of this group have been handling assestes mips covering from 2 to 9 years. It was interesting to m to that the two in Widuals with the longest exposures of 5 and 9 years were in the older age group, being 59 and 65 years of age respectively. All of the 38 films were reviewed and 12 of these putients showed significant X-ray changes consistent with exposure to a dusty environment. History and physical examination by Dr. Fuller indicated that in all of the 38 patients respiratory symptoms and physical signs were minimal.

On X-ray interpretation these 38 patients could be divided into four groups:

1. The two older workers referred to above, the appearance of whose chest Nermys was consistent with the diagnosis of well established asbestosis. These plates also showed signs typical of advanced age, such as cardiovascular changes, etc.

- 2. A group of four workers whose emosure was from two and a half to four years whose thest X-ray apparentes were consistent with a diagnosis of asbestosis.
 - 5. A group of six morthers whose exposure was from two to two and a half years and whose chest films showed minimal showes but not sufficient for a definite diagnosis of asbestosis.
 - 4. A group of 26 vortions whose exposure was from two to two and a half years and whose chest films were considered negative.

It was considered significant that those workers with the most marked X-ray changes were those who presumably were exposed to the heavier concentrations of dust, such as operators of the band saw and small rotary power driven saws.

In those workers whose Trays were consistent with a diagnosis of asbestosis, the changes consisted of bilaterally symmetrical increased reticulation of the lung fields resembling a ground glass appearance. Such lung field markings are indistinguishable from those induced by chrysotile asbestos. No evidence of active tuberculosis was noted on any of the films.

Description of Pipe Coverer's Shop

This shop occuries about half of a loft and is partially segregated from sheet metal workers at the other end of the loft. The more dusty phases of the work such as band saw cutting and the mixing troughs are located at the far end of the loft. Local exhaust ventilation was installed on the band saw several mouths ago and removes some of the last arising during the cutting of sipe insulation. Respirators were being worn by several workers using the small retary saws. It is anticipated in the near future, that the insurance carrier, American Mutual Liability Insurance Co., of Boston, Mass., will take dust samples throughout the shop. We know the personnel of the insurance carrier, have discussed the problem with them and would have complete confidence in their appraisal of this job.

- 1. It is recommended that all of the remaining asbestos morkers be given a chest X-ray in the near future.
- 2. Unless the dust emosure is controlled as outlined below, the workers in groups 1 and 2 above, should be transferred to a non-dusty occuration.
- 3. Groups 1, 2 and 5 should have a chest X-ray at yearly intervals.
- 4. If the dust exposure is not controlled all asbestos workers should have a chest Y-ray at yearly intervals.
 - 5. Thile the local exhaust on the band saw removes a considerable proportion of the dust, it is not considered adequate. This ventilation should be corrected so that the dust is removed.

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- 6. Unless properly ventilated the band saw and mixing trough operations should be isolated from each other and from the rost of the show. All workers on these operations should wear either approved air line respirators or respirators approved for paramosomicsis-producing dusts.
- 7. If the dist counts taken by the insurance show, that after isolation of the above operations, the amount of asbestes dust in the general shop is sufficiently high to produce an asbestosis hazard, then the general ventilation of the shop should be improved.

Note: Reference (a) recommended as follows:

The conditions in this shop present a very real asbestopic hazard and immediate steps should be taken to sogregate the most fusty processes into a well ventilated area. Local exhaust systems of proper design should be installed; however, if conditions cannot be completely controlled in this manner, then suitable dust respirators should be worn by the workers. Periodic physical exercitations of the chests of all markers should be made.

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U. S. NAVY - U. S. MARITIME COMMISSION - WAR SHIPPING ADMINISTRAL INDUSTRIAL HEALTH AND SAFETY PROGRAM

INDUSTRIAL HEALTH AND SAFETY RE-SURVEY

of the

TODD PACIFIC SHIPYARDS INC.

SEATTLE DIVISION

formerly the

EATTLE TACOMA SHIPBUILDING CORPORATION

JULY 12 - 20, 1945

References

- (a) "Minimum Requirements for Safety and Industrial Health in Contract Shippards"
 Approved by the U. S. Maritime Commission and U. S. Navy, February 9, 1943
- (b) Industrial Health and Safety Survey
 of the Seattle-Tacoma Shipbuilding Corp.
 Flant "A" and "B", Seattle Division
 Scattle, Washington
 dated July 2 7, 1943, conducted by
 F. W. Johnson, Regional Safety Consultant
 Robert S. Poos, Lt. Comdr. (MC) USN
 James F. Horgan, Lt. (j.g.) H-V (5) USNR
- (c) Industrial Health and Safety Survey of the Seattle-Tacoma Shipbuilding Corp. Plant "A" and "B", Seattle, Washington dated January 11 13, 1944, conducted by Harry G. Beck, Comdr., (MC) USNR Ass't Chief Health Consultant John F. Ege, Jr., Lt. (j.g.) H-V(S) USNR Morwick Ross, Lt. (j.g.) H-V(S) USNR Regional Health Consultants

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Condr. Harry G. Beck, (MC), USMR
Ass't Chief Health Consultant
Lee O. Hughes
Regional Safety Consultant
Lt. Lowell G. Wayne H(S), USMR
Regional Health Consultant

VENTILATION (cont'd)

Comment

"3. In shop installations seek to replace flexible metal hose that is in use as permanent duct work with sheet metal."

No substantial progress has been made toward the realization of these recommendations. In general, provisions for the air supply on the hulls are quite effective, but local exhaust arrangements are poor. This is a serious handicap to the ventilation program as much of the welding in this year is done on galvanized material. A great deal of flexible metal tubing of 2-1/2" diameter is in use, most of it strung together in lengths long enough to be practically ineffective. No flanges or hoods are in use, and metal fume respirators of proper shape to fit under welders' helmets are not available. The recommendations of references (b) and (c) on this subject are still applicable.

ASHESTOS AND FIBURGLAS INSULATION

- *1. Institute regular clean-up of Asbestos Shop.
- "2. Provide satisfactory dust collection hood over the saws.
- "3. Make use of water spray to keep down the dust when cutting amosite on the tables.
- "4. Arrange to have respirators storilized, cleaned and repaired and provide clean place for their storage."
- Comment: There has been no satisfactory compliance with any of these recommendations.